



UNDERSTANDING  
THE HUNGARIAN  
ACADEMY  
OF SCIENCES:  
A GUIDE



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MAGYAR TUDOMÁNYOS AKADÉMIA • 2002

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EDITED BY:

JÁNOS PÓTÓ, MÁRTON TOLNAI AND PÉTER ZILAHY

UPDATED BY:

MIKLÓS HERNÁDI

With the contribution of: Krisztina Bertók, György Darvas, Ildikó Fogarasi, Dániel Székely  
English reader: Péter Tamási

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# INTRODUCTION

The Hungarian Academy of Sciences was founded not by imperial edict but by the will of 19th-century patriots. Thus it has been rightly regarded as a national institution throughout its 175-year history. In accordance with traditions, the Academy must continue to play an active part in the life of the state and the nation. The Hungarian Academy of Sciences is unique among European scientific civil organisations insofar as: it is an organisation of national meritocracy and the public body of Hungarian researchers with academic qualification. Presently there are more than 9600 public body members who participate in the work of the more than one hundred special committees maintained by the Academy's scientific sections.

The Hungarian Academy of Sciences is the organisation of a Hungarian-speaking elite of researchers. Similarly to the Hungarian academic qualification system, it is a two-level organisation. Researchers who have received their university qualification, or Ph.D., commonly recognised in the world, occupy the first level. The second level consists of those who meet the requirements of the Academy's own qualification system. They are the Doctors of the Academy and Academy members, or academicians, elected from among them. This qualification system requires that researchers with a Ph.D. who seek to obtain the title of Doctor of the Academy write a scientific dissertation. The respective sections of the Academy prepare a report on the candidates' previous research activity, appoint opponents to give an opinion of the dissertation, and give the candidate the opportunity to defend the dissertation in an open debate. At the end, the candidate may receive the Doctor of the Academy degree. There are about 2200 people with this degree today. The academicians then select the new members of the Academy, or academicians, from among the Doctors of the Academy. At first, members are granted corresponding membership, then,

based on subsequent scientific achievement, they become ordinary members. The law stipulates that the Academy have 200 members under 70 years of age, but those over 70 also retain full membership. Accordingly, the corps of academicians numbers 304 members today. Doctors and members of the Academy receive regular financial support guaranteed by the Hungarian state.

The Hungarian Academy of Sciences is a civil organisation of meritocracy. Similarly to most civil organisations, the Academy, too, has its own assets. It was mostly self-supporting up to the post-war inflation in 1922. Between 1922 and 1949, it relied partly on its own resources and partly on state subsidy. In 1949, its assets were nationalised, and only a fraction was returned after 1990. Today, it is maintained mostly by state subsidy, while the income from its own activities and entrepreneurial activities linked to research, as well as fees and grants acquired from external sources, constitutes 22–25% of its budget.

The basis of operation of the Academy as a civil organisation is the corporate spirit. Beside the President and the Secretary-General, the internal organisational reform assigns a greater role to the various leading organs, the Governing Board and the Presidium, in leadership.

Publicity is a fundamental requirement in the operation of a civil organisation. The newsmagazine *Akadémia*, which provides information on Academy events and plans, was launched with this in mind in 1997. After a seven-year interruption, the Almanac was revised in December 1997. The Academy's Yearbook will document annual events. In addition to these, the Academy Bulletin, the official publication containing the Presidium's standpoints, the President's and Secretary-General's decisions, will continue to appear as well.

We see the Hungarian Academy of Sciences as serving a threefold function in Hungarian scientific and public life in the coming decades, namely:

- a scientific workshop
- the nation's counsel
- a public body representing the professional interests of researchers.

The Hungarian Academy of Sciences is, by tradition, the forum of debate of the Hungarian scientific research elite. Its sections organise scientific debates and conferences as well as inaugural lectures for new members. (Both corresponding and ordinary members must hold inaugural lectures at a public meeting.) In the spirit of this work, in 1997, the Academy renewed its lecture series commemorating deceased members, and, at the same time, reviewing scientific heritage. It introduced lectures by young researchers before a panel of academicians. Furthermore, the Academy regularly hosts interdisciplinary round-table discussions and conferences, the aim of which is to present the latest scientific achievements of public body members, to set forth questions and topics that may be of public interest and induce debate. Since 1998, it has published various series containing the lectures delivered at these forums, thus the inaugural lectures of Academy members, the annually delivered commemorative speeches and the material of the reading sessions of the sections.

The Hungarian Academy of Sciences has maintained research institutes unaffiliated with universities since 1949. The Hungarian state applied modern principles of organisation of science when it placed research institutes, founded and owned by the state, under the supervision of an independent authority (the corps of academicians) instead of an executive organ (ministry). The act passed in 1994 provides for both the strengthening of the necessary autonomy of the network of research institutes within the Academy and the exercising of the right to assign tasks and measure achievement on the part of the owner (the state) and the manager (the Academy's public body).

In the 1980s, the research institutes and universities worked out a system of co-operation for undertaking joint scientific work by the university chairs and the research institutes and enabling employees of the latter to teach at universities on a contract basis. Our aim is to develop close co-operation between state-owned research centres and state university faculties. We also plan to increase the role of academic institutes in post-graduate training.

In 1997, the Academy's leadership initiated talks and took steps to bring manufacturers and academic insti-

tutes closer together. A survey of the Academy's institute network was started in order to determine which institute or group of institutes could co-operate with industry and if commissioning from manufacturers was possible. The reform of the award system serves co-operation between the Academy and industry.

Traditionally, the Academy operates research teams at university chairs. Certain jobs are assigned to university chairs at the recommendation of the various sections, while the university guarantees the facilities and other research conditions. Further development of this research-team system is desirable. We hope to set up similar academic research teams at private and state-owned companies. These teams are intended to function as the mobile units of Hungarian science.

The Academy has held competitions and given awards since its foundation. According to the planned modernisation of this system, the state (and, therefore, politically biased) award system would be supplemented by another set up by the public body of scientists. Academy awards that were financed from the budget but have lost their value may also be preserved as part of the new system. In addition, company-founded prizes are also given by the Academy.

The scientific elite must take part in the investigation of alternatives concerning opportunities open to the Hungarian state and the Hungarian nation in the 21st century. This is why we say that the forum for raising long-range questions and working out alternative solutions must be the Hungarian Academy of Sciences, where party politics play no part. In this way it may serve as the nation's counsel.

It was with this in mind that we launched the Strategic Studies at the Hungarian Academy of Sciences programme in the autumn of 1996, whereby the Academy may become new forum of public life. Strategic investigations and syntheses of selected issues have started (the future of Hungarian agribusiness, quality of life, the future of the Hungarian language, the future of traffic and transportation, management of water supplies, the future of the Danube basin, the Lowland programme, environmental protection and integration, Central European ecological monitoring, the future of information science, etc.). The government allocates funds decided by Parliament for the Strategic Studies Programme on the basis of contracts. It also shows the Academy's advisory role that in certain cases it undertakes by contract to work out alternative courses for a

ministry, giving its expertise in the preparation of decisions of executive power.

Every two years the Academy reports to Parliament on the situation of scholarship, the results of scientific research, and the state of research. This necessitates continuous monitoring. According to our plans, this is the Academy's job, which also means that it performs science policy functions.

The Hungarian Academy of Sciences, as a public body of scientists, works out long-term science policy concepts. In 1996, the government assigned the Academy with the task of preparing a long-term survey of the state of Hungarian science at the turn of the millennium. The treatise on Hungarian science policy,

written as a part of this work, was discussed by ten study groups (e.g. the state of research, the question of financing, the relationship between universities and research institutes, the relationship between science and society, the international system of relations of science regionalism in science policy, etc.).

The organisation of the Academy must be made suitable for performing the above threefold task. This necessitates the thematic and infrastructural modernisation of scientific workshops as well as the establishment of the necessary units for management and for the organisation of science.

*Ferenc Glatz*  
*President*

*Sándor Kónya:*  
A BRIEF HISTORY  
OF THE HUNGARIAN ACADEMY OF SCIENCES  
(1825–2002)

The need for establishing a scholarly society was first mentioned by Act VIII of 1808. During the last decade of the 18th and the first decade of the 19th century, various plans were conceived for the establishment of an academy for developing and propagating the Hungarian language and for promoting the development of science, but funds for establishing such a society were not available. This question was often raised until, at the November 3, 1825, district session of the Diet in Bratislava (the seat of the Hungarian Parliament), the county delegates started a debate on the matter of a Hungarian Learned Society, criticizing the magnates for not making sacrifices for a national cause. It was there that Count István Széchenyi offered one year's income of his estate for the purposes of a learned society.

Széchenyi's example was followed by Ábrahám Vay, Count György Andrásy, and Count György Károlyi, who also made significant contributions to the founding of the society.

### FIRST DECADES (1825–1867)

The task of the society was specified as the development of the Hungarian language and the study and propagation of the sciences and the arts in Hungarian. Act XI of 1827 stated: "The voluntarily and freely donated capital in money shall be used to establish the Learned Society, that is, the Hungarian Academy."

The foundation of the Learned Society in Hungary, then on the threshold of bourgeois transformation, meant the realization of earlier aspirations that held that developing the Hungarian language and the flourishing of science were one of the important means of national progress.

A committee of the four founders and eleven writers and scholars worked out the bylaws of association,

which the monarch endorsed in 1831, and the first "general assembly" of the Hungarian Learned Society convened on February 14, 1831.

The foundation itself pointed in the direction of bourgeois development, while the bylaws and the organization reflected the feudal conditions of the time of their conception. The Learned Society was directed by a 25-member Governing Board confirmed by the king. The Governing Board of mostly aristocrats and Church dignitaries selected the first members, elected the president and vice-president from among themselves and managed the Society's assets. The president and the vice-president were confirmed by the king. The bylaws stipulated that the Society was obligated to submit its publications to censorship, and its members were obliged to abstain from politics.

Society members gathered in six sections: I. Linguistics, II. Philosophy, III. Historiography, IV. Mathematics, V. Jurisprudence, VI. Natural Science. In accordance with the bylaws, the Society had 24 honorary, 42 full, and an unspecified number of corresponding members. The first full members included the poets Dániel Berzsenyi and Sándor Kisfaludy, the writer and language reformer Ferenc Kazinczy, the poets and dramatists Károly Kisfaludy and Mihály Vörösmarty. The first president of the Learned Society was Count József Teleki, its vice-president Count István Széchenyi, and its first secretary Gábor Döbrentei, who was replaced by Ferenc Toldy, a physician and literary historian, in 1835.

Its work was regulated by weekly meetings and annual assemblies. Members reported on their research results, students of the arts read their poems and literary works the themes of competitions were worked out and subsequently judged at the weekly meetings. Commemorative lectures were also read there. Attendance was compulsory for full members residing in Budapest.



Sections began to hold separate meetings only from the 1840s on. New members were elected by the assembly by secret ballot on the written recommendation of honorary and full members.

Organizing the Society's library enriched the Society and helped improve the conditions of scholarly work. Its foundations were laid by the Teleki family's 30,000 volume library and enriched by further donations and the foreign exchange of books. It also acquired important manuscript bequests.

János Arany described the first decade of the Academy as follows: "When our Society was founded, in six sections at first according to the six main sciences, the sections were not separated according to the needs of independent work. The Academy always holds joint meetings; and, generally, true to the aim formulated in the bylaws, namely, 'the study and propagation of the sciences in Hungarian,' it tends to regard itself a 'language cultivating' association in accord with the old wish of the patriots, rather than a scholarly society working according to fields of study. At this time, the minutes show an intimate, almost familiar picture of the sessions. A few honorary, 8 or 10 full members, the anointed representatives of literature, and sometimes one or two corresponding members gather weekly. They confer and criticize articles in the journal; sometimes the subject is some field of study, the bee-like busy collection of dialectal words and technical terms; the screening and re-coining of the latter; preparatory work in wording and lexicography, the encouragement of belles lettres, the standardization of literary language, making the achieved aesthetic revival permanent, and further developing it; in short, aspirations to improve and expand the Hungarian language, to propagate science in Hungarian. This effort is made not only at the center: the corresponding members are under obligation to send in strictly taken periodical reports and they are assigned with supervision of provincial printing houses, etc. The machinery is simple, but, in view of the results, the years of self-sacrificing work that the most eminent among us have put into things, sometimes not meant for geniuses, deserves all our gratitude."

During the first decade of the Learned Society's existence, its organizational framework operational system were established. At the same time, the partly organizational shortcomings, which became an obstacle to work, also came to the surface. The emergent reform aspirations in the country also exerted their influence in the

Society, as a result of which proposals and demands for increased professionalism, as well as certain organizational changes, were formulated. A debate started on the aims of the Society over whether the Academy was a scholarly or a linguistic institute. Proposals were made to reorganize the six sections into four or three sections and concurrently establish their autonomy in their respective fields of study. There were criticisms of the power wielded by the Governing Board and the learned body's dependent position. It was noted that the natural sciences needed greater scope and greater financial assistance. These aspirations led to certain internal changes, but any modification of the bylaws was resisted by the Court.

The Learned Society, or the Hungarian Academy of Sciences (as it came to be called after 1845), worked successfully up to 1848 in developing the Hungarian language and literature and the national theater. It espoused the collection of Hungarian folk poetry, posted competitions for the solution of questions of national interest, and commissioned the writing and translation of plays. It laid the foundations for scientific book and journal publishing in Hungary. It regularly awarded prizes for outstanding scientific and literary achievements.

The prelude to and outbreak of the 1848 revolution, again brought the unsolved questions to the surface. On March 20, 1848, preparations for reforming the bylaws began. Some of the proposals for reform put forth that officers be elected by the members and not by the Governing Board, that the state extend financial assistance to the Academy, and that the lectures be made public. Others said that the measure of Academy members should be talent and knowledge, not birth or privileges. However, military actions pursuant to the outbreak of the revolution prevented the convening of the assembly to modify the bylaws as planned for the fall. The reform had to wait for better times. But they did not come.

The country's occupation after the defeat of the revolution and the war for independence greatly restrained the work of the Academy. It resumed partial activity only in spring 1850 with the imperial commissioner's permission. It was allowed to hold the weekly meetings but not the assembly for electing members. The new vice-president, Count György Andrassy, instead of the sickly president, directed the Academy's limited work.

The Academy – on imperial order – requested a license to operate, the granting of which was condition-

al on the modification of the bylaws. The new bylaws were framed by the government, approved by the monarch, and acknowledged by the Academy only in 1858. Until then it was allowed to work – for years without legal grounds – only under the direct supervision of the imperial commissioner. Permission was needed to hold meetings, and these were attended by the imperial commissioner.

The dual nature of the new bylaws characterizes the period well. On the one hand, it reflected dependence, the strict control exercised over the scope of activity by the ruling power which treated the country as if it were a province. Accordingly, instead of election by the Governing Board, it was the monarch who selected one of three candidates for the presidency, and instead of election by the assembly, it was the governor-general who nominated new members. On the other hand, it contained those changes in the Academy's organizational structure which guaranteed the framework for activity by legalizing the committee system, still in an early stage of development, and independent section meetings. Henceforth the institution was officially called the Hungarian Academy of Sciences.

After nine years, the Academy held its ceremonial general assembly in December 1858. Its greatly reduced membership acquired 74 new members. This was the time when such eminent figures of Hungarian literature as the poet János Arany, the doctor-writer Pál Gyulai, the novelist Mór Jókai, the historian Sándor Szilágyi, and the art historian Arnold Ipolyi became members. The number of representatives of the natural sciences also grew significantly. They included the surgeon János Balassa, the geographer János Hunfalvy, and the physicist Ányos Jedlik, the engineer József Stoczek, the geologist József Szabó. In the 1850s, more than half of the Governing Board members was replaced. Baron József Eötvös and Ferenc Deák joined the leading body in 1855. This same year, Count Emil Dessewffy succeeded József Teleki as president, and Baron József Eötvös became vice-president.

In the 1850s, debates at the Academy, operating under difficult circumstances, were renewed from time to time, in order to decide the role of scholarship and the Academy in society, its function in the bourgeois transformation of society. One group of social and natural scientists, who considered the exploration of reality to be the task of science and the service of the emerging bourgeois Hungary to be the Academy's national duty,

came into conflict with those forces that tried to effect even the inevitable and absolutely necessary changes by relying solely on the aristocracy. By the end of the 1850s and the beginning of the 1860s, the balance of forces in the Academy changed in favor of a rational, realistic policy. The Academy was directed increasingly by Vice-President József Eötvös; Ferenc Toldy was succeeded by László Szalay as secretary in 1861 and he, in turn, by János Arany in 1864.

In the 1860s, the Academy's activity was increasingly pervaded by the science policy principle, according to which the results achieved in the natural and engineering sciences abroad were to be adopted and the sciences "developed further to the best of our ability." Furthermore, the social sciences had to employ modern methods to explore and show the nation's historical past, past and present life conditions, changes in the economy, the processes of urbanization. Secretary János Arany put this program as follows: "There's one thing mainly that awaits us Hungarians above all: to discover our country in every respect and show it to the world. When every lump of soil on this holy land of ours becomes known, every piece of stone reveals where it came from, whom it met; when everything living that breeds and moves there and that we have collected becomes part of one system; when we learn ... its moods, the nature of winds that bring rain and drought; when we unearth the deepest layers in the burial ground of its peoples, and, especially, when we see the language and actions expressing the past and present of those living today – of our dear nation – in the light of science, we acquire a political capital that cultured foreign countries are most happy to recognize."

Development of the system of committees continued in the 1860s with the setting up of the Statistics Committee alongside the Historiographic, the Linguistic, and the Archeological Committees set up in the 1850s.

The Academy became a national scholarship center in the 1860s, and it made several national initiatives to strengthen this position. It spoke up for the preservation of documents in the county and city archives, and initiated the establishment of the Statistical Office; its Archeological Committee dealt with the protection of monuments. It also wished to promote the process of bourgeois transformation through competitions.

During the course of this decade, the Academy's income grew considerably as a result of increased donations, in which the national collection for the construc-

tion of the Academy played an important part, and rising interest rates on foundation funds. In 1867, for the first time since its establishment, it also received a state subsidy.

The inauguration of the building of the Academy in 1865 was an important event in its history. Its reading rooms, conference rooms, art gallery, collection of minerals, and rich library offered great opportunities for scholarly work.

## AFTER THE COMPROMISE

(1867–1949)

The Compromise of 1867 created a new situation in the country's life. The changes prompted the Academy to rid itself of the restraints imposed by the bylaws of 1858. The new bylaws were adopted in 1869 and, with a few modifications, remained in force until 1945.

According to the bylaws, the Academy's aim was the study of science and – adhering to the traditions of the reform period – the study and propagation of literature in Hungarian. The bylaws defined three scientific sections: I. Linguistics and Aesthetics; II. Philosophical, Social, and Historical Sciences; III. Mathematics and Natural Sciences.

The role and composition of the Governing Board changed significantly. Management of the Academy's assets and financial affairs remained within its jurisdiction. In addition to the president, vice-president, and secretary-general, it had 24 members, 12 of whom were elected from among the founders and the patrons of science, the other 12 from among the members of the Academy. The organizational change in 1869 promoted a more autonomous and free development of the sciences.

In the decades following the Compromise, the Academy's international relations began to gradually grow. From the 1870s, Hungarian scientists representing the Academy began to attend international congresses with increasing frequency. In 1900, the Hungarian Academy joined the International Association of Academies. Granting honorary membership to foreign scientists indicated the broadening of international relations. Already in 1858, the English historian Michael Farnham, the German geographer Alexander Humboldt and historiographer Leopold von Ranke, and the Finnish folklorist Elias Lönnrot became members of the

Academy. The English philosopher John Stuart Mill and natural scientist Charles Robert Darwin, the German physician Rudolf Virchow, the French chemist Louis Pasteur, the Russian chemist Dmitri Ivanovich Mendeleev, and the French mathematician and physicist Henri Poincaré, among others, were elected honorary members in the ensuing decades.

The Academy's role in society and scientific life changed during the last decades of the 19th century. Its weight and influence began to decline, and its energetic development came to a standstill.

From the 1870s, everyday life began to make demands on scientific research with increasing urgency. Agricultural needs were the first to induce the state to establish experimental research institutes. Mining interests led to the establishment of an independent institute for geological research. The Academy was not entrusted with directing the work of institutes which came into being under the supervision of the respective ministries. This was due not only to the Academy's autonomy but also to its cumbersome administration. In addition to research institutes, experimental laboratories directly serving practical needs and research centers at universities were also gradually established. All this took place outside the walls of the Academy.

In the last decades of the 19th and at the beginning of the 20th century, the Academy came increasingly under attack – and not without reason – for isolating itself from social progress, from urgent social problems. Because of its conservatism, it was also incapable of espousing the new trends in literature and art. During this period it owed its prestige mainly to outstanding natural scientists such as the physicist Loránd Eötvös, the chemist Vince Wartha, the biologist István Apáthy, the mathematician Gyula Kőnig, the doctors of medicine Endre Hőgyes and Mihály Lenhossék, the mathematicians Lipót Fejér and Frigyes Riesz, the veterinarian Ferenc Hutyra, and the mechanical engineer Donát Bánki.

In spite of the deterioration in the general science policy of the Academy, the activity of its sections and committees increased, not least because the growing number of researchers doing high-standard works. The network of committees grew: the Literary History Committee was set up in 1879, the Classical Philology and the Military Science Committees in 1883. Their members were appointed from among the full and corresponding members at section meetings held concur-

rently with the assemblies. Young professionals who were not members of the Academy but were considered suitable for the job could also work on the committees as “assistant members” on the recommendation of sections. New corresponding members were elected mainly from among them. The Academy also resumed its publishing activity and, in late 1870s, launched the so-called Special Library series in the fields of history, law and political science, and literature. During these years an increasing number of scientific journals were published, financed wholly or in part by the Academy.

Conservatism in the Academy leadership strengthened at the beginning of the 20th century. Albert Berzeviczy, who was elected president of the Academy in 1905 and filled this position for 30 years, was a steadfast representative of this science policy.

The proletarian dictatorship established by the revolution of 1918-1919 wanted to dissolve the Academy and end its state support and “national status.” Attacking the unquestionable conservatism of the institute, the new cultural policy wished to break with every tradition. But after the brief, four-month-long dictatorship, the Academy – though broke – was able to resume work.

During the interwar period a peculiar situation set in at the Academy. The leadership represented the conservative ideals of the pre-World War One period, yet outstanding scientists, who made their mark in their respective fields, joined its ranks. A number of them gained international fame, including Albert Szent-Györgyi, Nobel-Prize-winning biochemist; Ottó Titusz Bláthy and Kálmán Kandó, mechanical engineers; Sándor Korányi, physician; Géza Zemplén and József Vargha, chemists; Béla Bartók and Zoltán Kodály; Zoltán Gombocz and Miklós Zsirai, philologists; Gyula Szekfű and István Hajnal, historians; János Horváth, literary historian; Farkas Heller, economist; István Györfy, ethnographer and Sándor Jávorka, botanist.

The successive governments tried to use the Academy to extend their social-cultural influence and propagate their own conservative ideas and the national ideology of the time. The Academy’s leaders did their best to comply. At the same time, politics also helped the Academy to recover. As a result of the wartime inflation, the Academy lost many of its assets. However, Count Kunó Klebelsberg, the minister of religion and public education, had an important role in mind for the Academy and, therefore, provided regular state assis-

tance. State subsidies and again increasing donations, plus foundations – the posting and reward of competitions, the support of the publication of scientific books and journals – helped the Academy to gradually regain its leading role in science in traditional ways.

At the end of the 1920s and the early 1930s, the work of the committees revived and expanded. The Ethnographic Subcommittee was organized: in its Folkmusic Subcommittee Béla Bartók and Zoltán Kodály worked. The Fine Arts Committee and the Jurisprudence Committee also began their work.

Notwithstanding the worldwide surge ahead and differentiation in the natural sciences, the Academy’s outdated organization kept the natural and engineering sciences in a minority position. The automatic distribution of funds for research and the higher costs of natural scientific research made its disadvantageous position even more conspicuous.

In the democratic political atmosphere following World War Two, the question of the transformation of the Academy could no longer be evaded. The new bylaws, giving the natural sciences a greater scope, were adopted in 1946. The independent Academy of Natural Sciences, founded by the Nobel-Prize-winning Albert Szent-Györgyi, was merged with the Academy, and the number of natural sciences sections increased to two. The Governing Board’s autonomy was terminated, and henceforth its members were elected from among the academicians. The process of democratic transformation came to a standstill in 1949.

## THE ACADEMY UNDER THE COMMUNIST SYSTEM (1949–1988)

Act XXVII of 1949, modeled on the Soviet example, integrated the Academy into the newly developing political and institutional system, thus ending its autonomy and placing it under direct Communist Party and state control. According to the law, its duties included “the framing of a national scientific plan and the direction of the work of academic and non-academic research institutes with a scientific point of view.” Its duties also included ensuring a succession of scientists, the operation of postgraduate training, developing a unified, centralized system of new academic degrees,



and academic qualification. Furthermore, it was the Academy's job to supervise scientific societies, direct the publication of scientific books and journals, and promote international scientific relations. The Academy was intended to play an important part in disseminating the official ideology of Marxism-Leninism and its application in the field of science. In order to make the Academy suited for performing this role, the new bylaws stipulated the substantial reduction in the number of Academy members from 257 to 131. For political and ideological reasons, the majority of the old members and specifically, 122 of them – including many eminent scholars – were reclassified consulting members, thus virtually excluded. In the course of the reorganization, the Aesthetics Subsection, composed of writers and artists, was dissolved. At first six, then ten sections were created. The scientific sections established a broad network of committees by changing the previous system of committees. In the 1950s and 1960s, the academic research institutes were established primarily for the purpose of carrying out basic research in the field of natural sciences and the study of social sciences.

The operational system of the Academy – particularly in the beginning – was strictly centralized. Formally, the general assembly of academicians constituted its supreme body, but in fact it was a new organ, the Presidium, controlled by the Hungarian Workers' Party, that directed the Academy. The Presidium was comprised of elected officers and section chairmen. The sections were headed by five-to-seven-member directorates.

Although many elements in the function, jurisdiction, operational mechanism of the Academy changed between 1949 and 1989 – mostly following the partial changes in the political system and in science policy therein – essentially it remained a scientific body highly dependent on political authority and, simultaneously, an organization performing state administrative tasks. Over this 40-year period the Academy had four presidents: István Rusznyák (1948–1970), Tibor Erdey-Grúz (1970–1976), János Szentágothai (1976–1985), and Iván T. Berend (1985–1990).

The organizational reform introduced in 1969 intended to put an end to the difficulties arising from the dual function of acting both as a scientific body and as an administrative organ supervising the institutes, by formally keeping the unity of the Academy but organizationally separating the two activities. It “relieved” the scientific bodies (the Presidium, the sections and com-

mittees) of the administration of institutes in order to enable these bodies to exert a greater conceptual and methodological influence on the whole of scientific life, and put it them under the control of the president and the Presidium. The secretary-general, appointed by the government, was assigned with management and the supervision of the institutes. He was assisted in this work by the Central Bureau, which had ministerial status and carried out state administrative functions. Party and state control could be exercised directly – bypassing the various bodies – through the secretary-general acting as a government official. Although this rigid separation eased at the end of the 1970s and the role of scientific bodies in controlling the institutes grew, in essence, this organizational duality persisted until 1990, that is, formally speaking, until 1994 when the new law on the Academy came into force.

In spite of the distortions often forced onto it, or the voluntarily assumed one-sided practices, and mistakes, important achievements mark this 40-year period. Unquestionably, the most important contribution the Academy made to Hungarian science – besides the achievements of its members – was the theoretical work done at the research institutes and its application in practice. The high standard of the work of Academy members and academic institutes justly received international recognition in a number of areas and assured the participation of hundreds of Hungarian researchers in the broad system of international scientific relations. The Academy's participation in the system of academic qualification helped thousands to acquire academic degrees and enhance the success of Hungarian research.

## THE TRANSITION (1988–1996)

The economic crisis in the late 1980s also had an impact on the amount of financial aid extended to research. Work began on how to change the management systems, including research management, to make them less costly for the state. It was also raised that the academic institutes should be dissolved, or annexed to universities. Given this situation, at the end of the 1980s, a reform process began to evolve at the Academy with the initiative for framing a new law on the Academy. Academy members unjustly expelled in 1949 were rehabilitated in 1989. In 1990, the new bylaws were adopted.

Parallel with the change of the political system and under the leadership of the new president, Domokos Kosáry, reform of the Academy gained momentum. It ceased to exercise jurisdiction as a supreme authority and announced its intention to become a public body. At the president's initiative, the Széchenyi Academy of Literature and Art, gathering the eminent representatives of literature and the arts, was established as a so-called associate yet autonomous institute. The law on the Academy promulgated in March 1994 and the new bylaws adopted on the basis of the law signalled the end of the reform process.

According to Act XL of 1994, the Academy is a scholarly public body founded on the principle of self-government, whose main task is the study of science, the publicizing of scientific achievements, and the aid and promotion of research. Its members are the academicians. The number of Hungarian academicians under the age of 70 years cannot exceed 200. The Academy, as a public body, is composed of academicians and other representatives of the sciences with an academic degree, who work to solve the tasks of Hungarian science, express their intention to become members of the public body and accept the duties it involves. They exercise their rights through their representatives. The general assembly is the supreme organ of this public body, which is composed of academicians and delegates representing the non-academician members of the public body. The 200 delegates are elected by secret ballot. The general assembly frames its own bylaws, determines its order of procedure and budget, elects its officers (president, vice-presidents, secretary-general, vice-secretary-general), the committees of the general assembly, and the elected members of the presidium.

As the bylaws stipulate, the Academy has eleven sections:

- I. Linguistics and Literary Studies Section,
- II. Philosophy and Historical Studies Section,
- III. Mathematical Sciences Section,
- IV. Agricultural Sciences Section,
- V. Medical Sciences Section,
- VI. Technical Sciences Section,
- VII. Chemical Sciences Section,
- VIII. Biological Sciences Section,
- IX. Economics and Law Section,
- X. Earth Sciences Section,
- XI. Physical Sciences Section.

The sections operate committees corresponding to branches of scholarship and special fields of research. The Academy maintains research institutes and other institutions (libraries, archives, information systems, etc.) assisting their work, and extends aid to university research centers. The operation of research institutes is directed by the 30-member Council of Academic Research Centers with the assistance of three advisory boards. The Council of Doctors may confer the Doctor of the Hungarian Academy of Sciences title. The operation of the Academy is financed by the budget, income derived from its assets, and by foundations and donations.

Although the development of the new organizational structure and the new principles of operation accompanying the democratic transition took longer than expected – not least of all because of the drawn-out process of framing the law on the Academy – it was accomplished by 1995. The election of officers in 1996 inaugurated a new phase in the Academy's history under the new president, historian Ferenc Glatz.

## THE ACADEMY IN A NEW DEMOCRACY (1996–2002)

The year 1996 was marked by the start of a deep-going reform in Hungarian science policies. Instrumental to this reform was the newly elected leadership of the Academy. The reform proposed a very active science policy within the perimeters of a country recently freed from the Soviet regime, replacing that system with one that is as open to the world as it is democratic. Another objective was the exploration of information society's novel requirements towards science as well as the formation of a new science and research organization that could stand up to the needs of a new era. As to the financing of science and research, the new role of Government as opposed to the corporate world was also to be found. Science policy priorities set in 1969 had to be re-set as were serious gaps in ecology, minority studies, water conservation, etc. opening during the Soviet regime to be quickly bridged. The research base, threatened by a steep drop in Government financing between 1990–1996, was also to be salvaged.

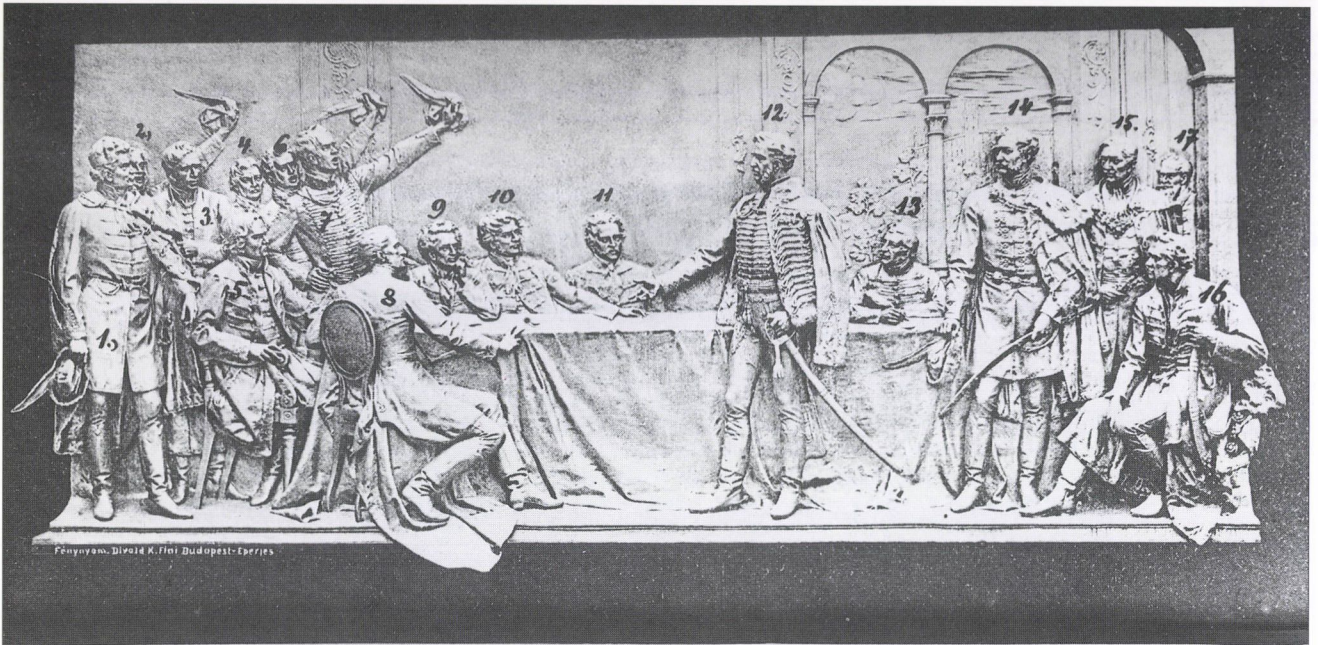
This reform had started within the confines of the Academy but it aroused nationwide activism in science





COUNT  
ISTVÁN  
SZÉCHENYI,  
OIL PAINTING  
BY  
FRIEDRICH  
VON  
AMERLING,  
1836.





1 Kolosváry Miklós  
Győrvarmegye követe

2 Balogh János  
Batsvarmegye követe

3 Szoboszlai Pap István  
országgyűl. reform. lelkész

4 Döbrentei Gábor

5 Máriaassy István  
Gömörvarmegye követe,  
a kerületi ülés elnöke

6 Takács Gáspár  
Pozsonyvarmegye követe

7 Bartal György  
Pozsonyvarmegye követe

8 Felsőbükkli Nagy Pál  
Sopronvarmegye követe

9 Gr. Dessewffy József  
Szabolcsvarmegye követe

10 Gr. Andrássy György  
Tornavarmegye követe

11 Vay Ábrahám  
Borsodvarmegye követe

13 Plathly Mihály  
Batsvarmegye követe,  
a kerületi ülés jegyzője

14 Gr. Károlyi György

15 Gr. Eszterházy Mihály

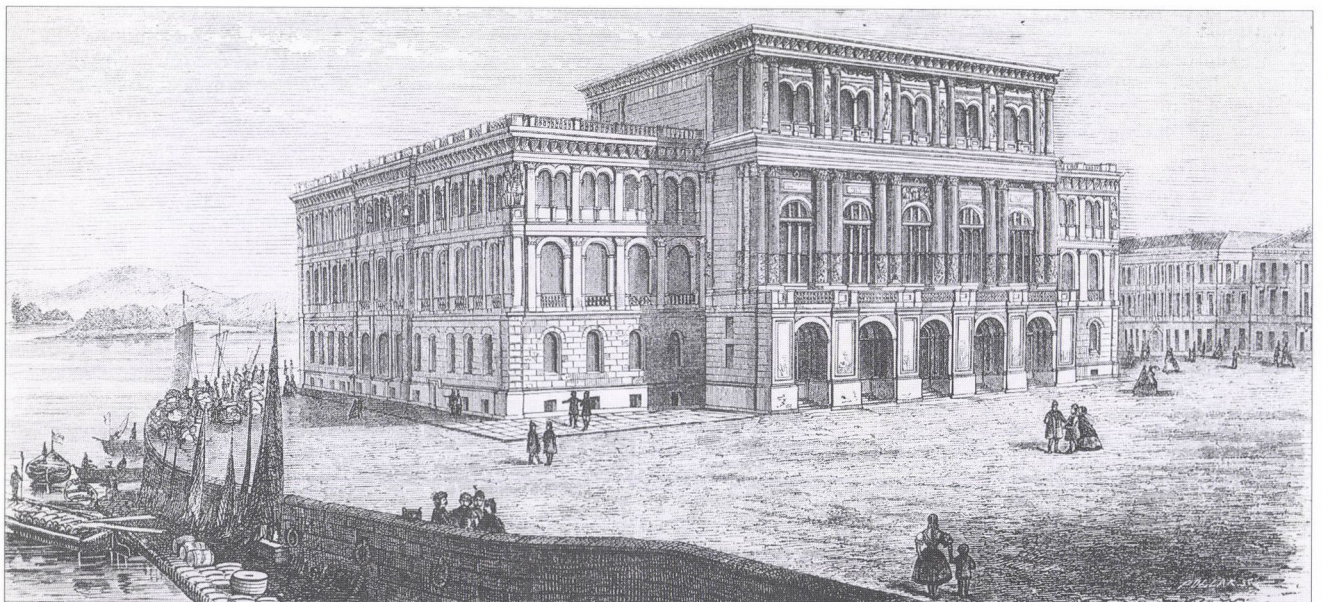
16 B. Wesselényi Miklós

17 B. Perényi Zsigmond  
Beregvarmegye követe

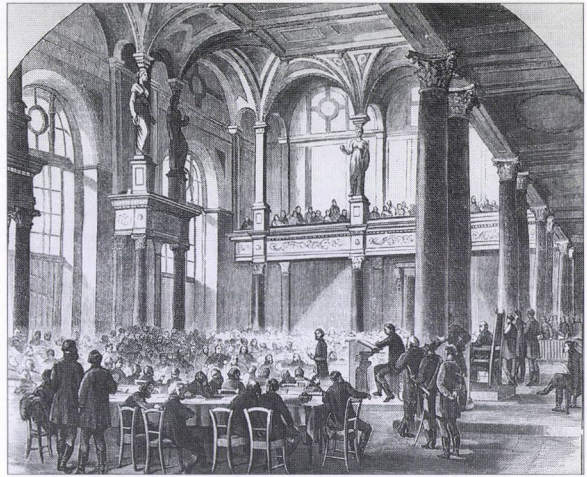
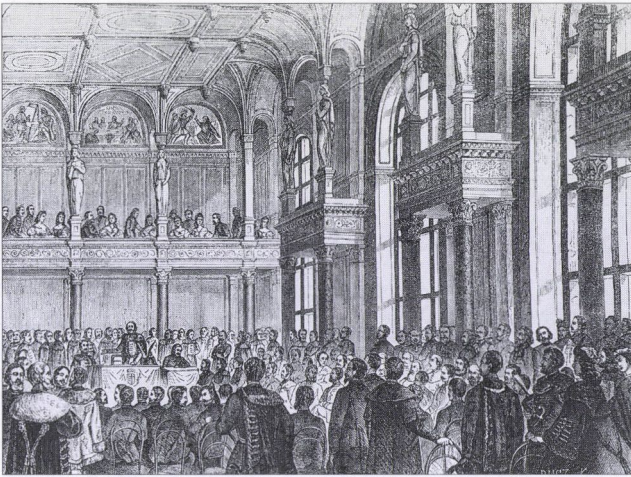
12 Gr. SZÉCHENYI ISTVÁN

BARNABÁS HOLLÓ'S RELIEF ON THE EAST SIDE OF THE BUILDING SHOWS THE FOUNDATION OF THE ACADEMY. THE PHOTOGRAPH WAS MADE BY KÁROLY DIVALD AND SONS AROUND 1910, AND THE ART HISTORIAN KORNÉL DIVALD IDENTIFIED THE FIGURES.

DESIGN BY AUGUST STÜLER, THE ARCHITECT FROM BERLIN WHO WON THE COMPETITION. THIS WOODCUT OF THE FINAL DESIGN WAS PUBLISHED IN *SUNDAY NEWS* ON AUGUST 31, 1862.





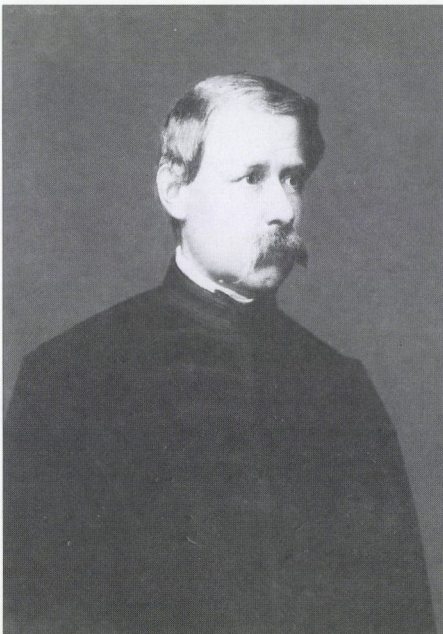


LEFT: THE CEREMONIAL HALL OF THE HUNGARIAN ACADEMY OF SCIENCES AT THE INAUGURAL OF THE BUILDING.

RIGHT: AT ONE TIME, PARLIAMENT HELD ITS SESSIONS IN THE CEREMONIAL HALL.



THE OLD LIBRARY ROOMS ON THE GROUND FLOOR OF THE WING OVERLOOKING THE DANUBE. WOODCUT BY KÁROLY RUSZ, 1865.



LEFT: THE BYLAWS OF THE ACADEMY WERE ENACTED IN 1869 AND REMAINED IN FORCE WITH ONLY MINOR MODIFICATIONS UP TO THE END OF THE SECOND WORLD WAR. MIHÁLY KOVÁCS PAINTED THIS PORTRAIT OF JÁNOS ARANY, POET, ONE OF THE AUTHORS OF THE BYLAWS, AND LONG-STANDING SECRETARY-GENERAL OF THE ACADEMY, IN 1869.

RIGHT: DÁNIEL BERZSENYI, OIL PAINTING BY MIKLÓS BARABÁS, 1835-1837.





GÁBOR DÖBRENTÉI,  
DRAWING BY MIKLÓS BARABÁS, 1844.



MIHÁLY VÖRÖSMARTY,  
OIL PAINTING BY MIKLÓS BARABÁS, 1836.

FERENC TOLDY (SCHEDEL),  
DRAWING BY MIKLÓS BARABÁS, 1844.



LÁSZLÓ SZALAY, AN EMINENT HISTORIAN,  
WHO SUCCEEDED FERENC TOLDY AS SECRETARY IN 1861.



policies. From 1996 through 2001, Government science expenditures rose by 230%. The Academy's own budget rose by 310% from 1995 through 2002. Salaries of university lecturers and research personnel were raised by 34% in 2001 alone.

HAS has only recently got round to defining its new, triple function. First of all, the Academy is a traditional venue of research with its own network of research institutes (since 1949) as well as a site for scientific discussion and publication (since its inception in 1825). Secondly, the Academy is the counsel of the entire Hungarian nation taking it upon itself to explore and establish courses of action in long-term issues (cf. with its National Strategic Research project since 1996). Thirdly, the Academy represents the interests of all research workers in Hungary embracing as it does all research personnel with degrees into its public body (as provided for by the Academy Act of 1994). Since 1996, the Academy must also expound and periodically update Hungary's long-term science policy objectives. Since 1994, it must also regularly report to Parliament on the situation of Hungarian science and scholarship.

From 1996 through 2000 the Academy opened up its public body to scholars and scientists living abroad but declaring themselves to be Hungarian. It has provided grants and scholarships, since 1997, to all eligible Hungarians living outside Hungary's frontiers. It has also, since 2001, extended its activities to church institutions.

Thus, HAS has redefined the relationship of science and society. It proposed and organised, first in 1997, a yearly Festival of Hungarian Science proffering the chance, among other things, for the general public to tour university lecture-rooms and research institutes. A Public Relations Office was established at the Academy in 1996. Two years later, the Academy Club was opened providing a congenial meeting-place for entrepreneurs, politicians, and scholars.

The Academy has re-structured its network of research institutes comprising 39 institutes at present.

Sites vacated from 1990 through 1996 have been salvaged, other sites have been merged while each institute maintained its own guaranteed staff and budget. (The latter have been doubled from 1996 through 2002.) New research units have been established in ecology, water conservation, minority studies, experimental medicine, Hungarian Plains research, and linguistics. In 2000, as many as six Hungarian research institutes won titles of Centers of Excellence of the European Union – five of those belonging to HAS.

The Academy's own scholarly activities have also been refurbished. A new order of honorary and obituary lectures has been worked out. A new central unit has been made responsible for publishing honorary and obituary lectures. A new, monthly Programme Booklet gives directions to those wishing to attend the scholarly functions of the Academy and its institutes. The quarterly news magazine named *Akadémia* is sent out to all of the Academy's 10 000 public body members. A new edition of the Academy's Almanac was printed in 2001, and both the Academy's Yearbook and a Biographical Encyclopedia of all past and present members of HAS are in progress.

Shortly after the inception of HAS's National Strategic Research project in 1996, the book series Hungary at the Turn of the Millennium began to appear. Up to the time of writing, 28 volumes have been printed on such disparate topics as Hungarian agriculture, energy policies, water conservation, health, NATO, environment issues, ecology, etc. Summaries of each were printed in HAS's *Ezredforduló* (Turn of the Millennium) journal.

At the joint request of UNESCO and ICSU, the Hungarian Academy of Sciences organized the first ever World Conference on Science in Budapest.

HAS currently has 336 ordinary members. 2182 researchers have won Doctors of the Academy degrees in the Academy's system of qualifications, and the public body of HAS boasts around 10 000 members with at least Ph.D. degrees.

# ELECTED CHIEF OFFICERS OF THE HUNGARIAN ACADEMY OF SCIENCES

The elected high officials of HAS are: the President, the Vice-Presidents, the Secretary-General and the Deputy Secretary-General.

*H-1051 Budapest, Roosevelt tér 9  
Phone: (36-1) 338-2344, (36-1) 338-2376  
Internet: [www.mta.hu](http://www.mta.hu)*

## *Abbreviations:*

HAS = Hungarian Academy of Sciences  
C.M. = Corresponding Member of HAS  
O.M. = Ordinary Member of HAS

## PRESIDENT

**Ferenc Glatz, O.M.**  
Phone: (36-1) 331-9353  
Fax: (36-1) 332-8943  
E-mail: [glatz@office.mta.hu](mailto:glatz@office.mta.hu)

## VICE-PRESIDENTS

**László Keviczky, O.M.**  
(natural sciences)  
Phone: (36-1) 331-4379  
Fax: (36-1) 302-4808  
E-mail: [h10kev@ella.hu](mailto:h10kev@ella.hu)

**E. Szilveszter Vizi, O.M.**  
(life sciences)  
Phone: (36-1) 331-4379  
Fax: (36-1) 302-4808  
E-mail: [h2250viz@ella.hu](mailto:h2250viz@ella.hu)

**György Enyedi, O.M.**  
(social sciences and humanities)  
Phone: (36-1) 331-4379  
Fax: (36-1) 302-4808  
E-mail: [enyedigy@office.mta.hu](mailto:enyedigy@office.mta.hu)

## SECRETARY-GENERAL

**Norbert Kroó, O.M.**  
Phone: (36-1) 311-9812  
Fax: (36-1) 312-8483  
E-mail: [kroo@office.mta.hu](mailto:kroo@office.mta.hu)

## DEPUTY SECRETARY-GENERAL

**Attila Meskó, O.M.**  
Phone: (36-1) 312-7069  
Fax: (36-1) 311-3868  
E-mail: [mesko@office.mta.hu](mailto:mesko@office.mta.hu)



# MEMBERSHIP OF THE HUNGARIAN ACADEMY OF SCIENCES

Under its Statutes, the Hungarian Academy of Sciences has ordinary (full), corresponding, external and honorary members (collectively called academicians), elected by the General Assembly on proposal by the scientific sections.

## *Abbreviations used:*

O.M.: Ordinary Member,  
C.M.: Corresponding Member,  
E.M.: External Member,  
H.M.: Honorary Member.

## I. SECTION OF LINGUISTICS AND LITERARY SCHOLARSHIP

*H-1051 Budapest, Nádor utca 7*

*Phone: (36-1) 411 6312*

*Fax: (36-1) 411 6122*

*Internet: [www.nytud.hu/mtanyio](http://www.nytud.hu/mtanyio)*

*E-mail: [illess@office.mta.hu](mailto:illess@office.mta.hu)*

*Chairman: FERENC KIEFER, O.M.*

*Vice-chairman: MIKLÓS MARÓTH,  
C.M.*

*Secretary: SÁNDOR ILLÉS*

### ORDINARY MEMBERS

**Benkő, Loránd** (Nagyvárad, 1921)  
C.M.: 1965; O.M.: 1976  
linguistics

**Borzsák, István** (Monor, 1914)  
C.M.: 1982; O.M.: 1987  
classical philology

**Hajdú, Péter** (Budapest, 1923)  
C.M.: 1970; O.M.: 1976  
Uralic linguistics

**Harmatta, János**  
(Hódmezővásárhely, 1917)  
C.M.: 1970; O.M.: 1979  
classical philology, Indology,  
Iranistics

**Hazai, György** (Budapest, 1932)  
C.M.: 1982; O.M.: 1995  
oriental studies, Turkic languages

**Herman, József**

(Budapest, 1924)

C.M.: 1982; O.M.: 1987

Roman philology, general and  
Latin linguistics

**Kiefer, Ferenc** (Apatin, 1931)

C.M.: 1987; O.M.: 1995

general linguistics

**Kiss, Lajos** (Debrecen, 1922)

C.M.: 1998; O.M.: 2001

Slavic and Hungarian  
linguistics

**Köpeczi, Béla** (Nagyenyed, 1921)

C.M.: 1967; O.M.: 1976

literary history, history

**Nagy, Péter** (Budapest, 1920)

C.M.: 1973; O.M.: 1983

Hungarian and French literary  
history

### SCIENTIFIC COMMITTEES OF THE SECTION

*Committee on Classical Philology*

*Committee on Cultural History*

*Committee on Dramatic Studies and  
Cinematography*

*Committee on Ethnography*

*Committee on Hungarian Linguistics*

*Committee on Linguistics*

*Committee on Literary Scholarship*

*Committee on Musicology*

*Committee on Oriental Studies*

**Németh, G. Béla**  
(Szombathely, 1925)  
C.M.: 1982; O.M.: 1990  
19th- and 20th-century literary  
history, cultural history

**Poszler, György** (Kolozsvár, 1931)  
C.M.: 1990; O.M.: 1995  
literary history, literary theory,  
aesthetics

**Ritoók, Zsigmond**  
(Budapest, 1929)  
C.M.: 1990; O.M.: 1993  
classical studies

**Róna-Tas, András**  
(Budapest, 1931)  
C.M.: 1990; O.M.: 1995  
linguistics, oriental studies

**Szegedy-Maszák, Mihály**  
(Budapest, 1943)  
C.M.: 1993; O.M.: 1998  
comparative literary scholarship,  
Hungarian literary history

**Ujfalussy, József** (Debrecen, 1920)  
C.M.: 1973; O.M.: 1985  
aesthetics, theory and history of  
music

CORRESPONDING MEMBERS

**Görömbei, András** (Polgár, 1945)  
C.M.: 2001  
contemporary and minority  
Hungarian literature

**Kara, György** (Budapest, 1935)  
C.M.: 2001  
Middle- and Far-Eastern  
languages

**Kertész, András** (Debrecen, 1956)  
C.M.: 2001  
Germanic and general linguistics

**Kiss, Jenő** (Mihályi, 1943)  
C.M.: 2001  
Hungarian linguistics

**Kósa, László** (Cegléd, 1942)  
C.M.: 1998  
ethnography/folklore, cultural  
history

**Kulcsár Szabó, Ernő**  
(Debrecen, 1950)  
C.M.: 1995  
modern literary history, literary  
hermeneutics

**Maróth, Miklós** (Budapest, 1943)  
C.M.: 1995  
classical philology, Arabistics

**Paládi-Kovács, Attila** (Ózd, 1940)  
C.M.: 2001  
European and Hungarian  
ethnography

**Somfai, László** (Jászládány, 1934)  
C.M.: 1995  
musicology

**Vizkelety, András** (Tata, 1931)  
C.M.: 1998  
Germanistics, mediaevalistics,  
codicology

EXTERNAL MEMBERS

**Alföldy, Géza** (Budapest, 1935)  
E.M.: 1995  
classical history, Roman  
inscriptions

**Bodi, László** (Budapest, 1922)  
E.M.: 1995  
Germanistics

**Bori, Imre** (Bácsföldvár, 1929)  
E.M.: 1990  
Hungarian literary history

**Csaky, Moritz** (Lőcse, 1936)  
E.M.: 1998  
19th- and 20th-century Hungarian  
and Austrian history, cultural history

**Fáj, Attila** (Budapest, 1922)  
E.M.: 1998  
comparative literary scholarship

**Fejtő, Ferenc** (Nagykanizsa, 1909)  
E.M.: 2001  
modern East-Central European  
history

**Fónagy, Iván** (Budapest, 1920)  
E.M.: 1990  
linguistics, language theory,  
phonetics

**Honti, László** (Lengyeltóti, 1943)  
E.M.: 1998  
Uralic linguistics

**Kibédi Varga, Áron** (Szeged, 1930)  
E.M.: 1990  
literary theory, French literary  
history

**Moravcsik, Julius M.**  
(Budapest, 1931)  
E.M.: 2001  
philosophy

**Rákos, Péter** (Kassa, 1925)  
E.M.: 1998  
literary theory, comparative literary  
scholarship

**Rédei, Károly** (Nagykanizsa, 1932)  
E.M.: 1990  
Uralic linguistics

HONORARY MEMBERS

**Bierwisch, Manfred** (Halle/S., 1930)  
H.M.: 1995  
Germanistics, general linguistics

<b>Chandra, Lokesh</b> (Ambala, 1927) H.M.: 1984 Buddhism	<b>Mayrhofer, Manfred</b> (Linz, 1926) H.M.: 1973 Indo-European linguistics	<b>Shackleton, Robert</b> (1919) H.M.: 1979 literary history
<b>Eren, Hasan</b> (1916) H.M.: 1988 linguistics	<b>Michel, Alain</b> (1929) H.M.: 1983 classical philology	<b>Sinor, Denis</b> (Kolozsvár, 1916) H.M.: 1979 oriental studies
<b>Faragó, József</b> (Brassó, 1922) H.M.: 1988 folklore	<b>Mortier, Roland</b> (Gent, 1920) H.M.: 1979 French literature, comparative literary history	<b>Sirendeb, Bazarin</b> (1912) H.M.: 1964 history
<b>Flaker, Aleksandar</b> (Białystok, 1924) H.M.: 1976 Russian literature, comparative literary scholarship	<b>Naumann, Manfred</b> (Chemnitz, 1925) H.M.: 1986 literary theory, comparative literary scholarship	<b>Trinh, Hồ Tôn</b> (1920) H.M.: 1979 literary studies, semiotics
<b>Gadamer, Hans-Georg</b> (Marburg, 1900) H.M.: 1983 philosophy, literary history	<b>Pellegrini, Giovanni B.</b> (1921) H.M.: 1995 comparative linguistics	<b>Vasoli, Cesare</b> (1924) H.M.: 1976 history of philosophy
<b>Handley, Eric Walter</b> (Birmingham, 1926) H.M.: 1993 classical philology	<b>Perrot, Jean</b> (Malesherbes /Loiret/, 1925) H.M.: 1980 general linguistics, Uralic languages	<b>Voisine, Jacques René</b> (1914) H.M.: 1979 comparative literary scholarship
<b>Koselleck, Reinhart</b> (Görlitz, 1923) H.M.: 1998 historical hermeneutics, theory of history, politology	<b>Sebeok, Thomas A.</b> (Budapest, 1920) H.M.: 1993 linguistics, semiotics	<b>Wickmann, Bo</b> (Uppland, 1917) H.M.: 1998 linguistics (Uralistics, Hungarology)
		<b>Zieme, Peter</b> (Berlin, 1942) H.M.: 2001 Turkish studies

## II. SECTION OF PHILOSOPHY AND HISTORY

*H-1051 Budapest, Nádor utca 7*  
*Phone: (36-1) 411 6219*  
*Fax: (36-1) 411 6122*  
*E-mail: farkasl@office.mta.hu*  
*Chairman: FERENC PATAKI, O.M.*  
*Vice-chairman: ERNŐ MAROSI,*  
*O.M.*  
*Secretary: LÁSZLÓ FARKAS*

SCIENTIFIC COMMITTEES OF THE  
SECTION

*Committee on Archaeology*  
*Committee on Art History*  
*Committee on History*  
*Committee on Pedagogy*  
*Committee on Philosophy*  
*Committee on Psychology*  
*Complex Committee on the History*  
*of Science and Technology*

ORDINARY MEMBERS

**Almási, Miklós** (Budapest, 1932)  
C.M.: 1987; O.M.: 1993  
philosophy, aesthetics

**Berend, T. Iván** (Budapest, 1930)  
C.M.: 1973; O.M.: 1979  
history, history of economy

- Garas, Klára**  
(Rákosszentmihály, 1919)  
C.M.: 1973; O.M.: 1985  
art history
- Glatz, Ferenc** (Csepel, 1941)  
C.M.: 1993, O.M.: 2001  
modern Hungarian history
- Heller, Ágnes** (Budapest, 1929)  
C.M.: 1990; O.M.: 1995  
philosophy
- Kosáry, Domokos**  
(Selmecbánya, 1913)  
C.M.: 1982; O.M.: 1985  
modern history of Hungary and Europe
- Marosi, Ernő** (Miskolc, 1940)  
C.M.: 1993, O.M.: 2001  
art history
- Mérei, Gyula** (Budapest, 1911)  
C.M.: 1973; O.M.: 1979  
modern history of Hungary,  
economic history
- Niederhauser, Emil**  
(Pozsony, 1923)  
C.M.: 1987; O.M.: 1993  
comparative history of Eastern Europe
- Nyíri, János Kristóf**  
(Rákoskeresztúr, 1944)  
C.M.: 1993, O.M.: 2001  
history of philosophy
- Ormos, Mária**  
(Debrecen, 1930)  
C.M.: 1987; O.M.: 1993  
history of the 20th century
- Pataki, Ferenc**  
(Szentes, 1928)  
C.M.: 1985; O.M.: 1990  
social psychology
- Pölöskei, Ferenc** (Réde, 1930)  
C.M.: 1987; O.M.: 1995  
history
- Szabad, György** (Arad, 1924)  
C.M.: 1982; O.M.: 1998  
modern history of Hungary
- Szabó, Miklós**  
(Szombathely, 1940)  
C.M.: 1995, O.M.: 2001  
classical archaeology, celtology
- Székely, György** (Budapest, 1924)  
C.M.: 1973; O.M.: 1985  
history of the Middle Ages
- Szigeti, József** (Rákospalota, 1921)  
C.M.: 1967; O.M.: 1987  
epistemology, aesthetics, history of philosophy
- Varga, János** (Sótony, 1927)  
C.M.: 1990; O.M.: 1998  
social, agricultural and political history
- Kristó, Gyula** (Orosháza, 1939)  
C.M.: 1998  
history of Hungary in the Middle Ages
- Kubinyi, András**  
(Budapest, 1929)  
C.M.: 2001  
medieval history and archeology
- Pléh, Csaba** (Sárisáp, 1945)  
C.M.: 1998  
psycholinguistics, psychology of cognitive processes
- Romsics, Ignác**  
(Homokmégy, 1951)  
C.M.: 2001  
modern Hungarian history
- Vajda, Mihály András**  
(Budapest, 1935)  
C.M.: 2001  
social philosophy
- EXTERNAL MEMBERS
- Benkő, Samu**  
(Lőrincfalva, 1928)  
E.M.: 1990  
Hungarian and Transylvanian cultural history
- Boskovits, Miklós**  
(Budapest, 1935)  
E.M.: 1998  
mediaeval and Renaissance painting
- Csetri, Elek** (Torda, 1924)  
E.M.: 1990  
history of Transylvania
- Csikszentmihályi, Mihály**  
(Fiume, 1934)  
E.M.: 1998  
psychology



<b>Deák, István</b> (Székesfehérvár, 1926) E.M.: 1990 modern European history	<b>HONORARY MEMBERS</b>	<b>Hill, John Edward Ch.</b> (York, 1912) H.M.: 1981 history
<b>Demény, Lajos</b> (Kisfülpös, 1926) E.M.: 1995 history	<b>Aretin, Karl Otmar von</b> (Munich, 1923) H.M.: 1986 history	<b>Hintikka, Jaakko</b> (Vantaa, 1929) H.M.: 2001 philosophical semantics
<b>Egyed, Ákos</b> (Bodos, 1929) E.M.: 1990 history	<b>Bruner, Jerome</b> (New York, 1915) H.M.: 2001 psychology	<b>Hobsbawm, Eric J.E.</b> (Alexandria, 1917) H.M.: 1979 history
<b>Hernád, István</b> (Budapest, 1945) E.M.: 2001 cognitive psychology	<b>Dennett, Daniel C.</b> (Boston, 1942) H.M.: 2001 cognitive psychology and philosophy	<b>Hunger, Herbert</b> (Vienna, 1914) H.M.: 1976 Byzantinology
<b>Imreh, István</b> (Sepsiszentkirály, 1919) E.M.: 1990 economic and social history	<b>Evans, Robert J.W.</b> (Leicester, 1943) H.M.: 1995 history	<b>Jakó, Zsigmond</b> (Biharfélegyháza, 1916) H.M.: 1988 history of the Middle Ages
<b>Márkus, György</b> (Budapest, 1934) E.M.: 1990 philosophy	<b>Gabriel, Astrik L.</b> (Pécs, 1907) H.M.: 1983 history, palaeography	<b>Kocka, Jürgen</b> (Haindorf, 1941) H.M.: 1995 modern history
<b>Mészáros, István</b> (Budapest, 1930) E.M.: 1995 philosophy, politology, aesthetics	<b>Geremek, Bronislaw</b> (Warsaw, 1932) H.M.: 2001 social and cultural history	<b>Moscovici, Serge</b> (Braila, 1925) H.M.: 1998 social psychology
<b>Molnár, Miklós</b> (Budapest, 1918) E.M.: 1995 history	<b>Haselsteiner, Horst</b> (Belgrade, 1942) H.M.: 1998 History of the Habsburg Empire in the 1820th centuries	<b>Walter-Klingenstein, Grete</b> (Hartberg, 1939) H.M.: 1998 state and clerical history in the 18th century
<b>Péter, László</b> (Rákosliget, 1929) E.M.: 1993 modern Hungarian history		

### III. SECTION OF MATHEMATICS

*H-1051 Budapest, Nádor utca 7*  
*Phone / Fax: (36-1) 411 6128*  
*Internet: [www.math.bme.hu/akademia/akad.html](http://www.math.bme.hu/akademia/akad.html)*  
*E-mail: [laszloj@office.mta.hu](mailto:laszloj@office.mta.hu)*  
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*Vice-chairman: PÁL RÉVÉSZ, O.M.*  
*Secretary: JÁNOS LÁSZLÓ, C.Sc.*

SCIENTIFIC COMMITTEES  
 OF THE SECTION

*Committee on Information Science*  
*Committee on Mathematics*  
*Committee on Operational Research*

ORDINARY MEMBERS

**Babai, László** (Budapest, 1950)  
 C.M.: 1990; O.M.: 1995  
 mathematics, computer science

**Császár, Ákos** (Budapest, 1924)  
 C.M.: 1970; O.M.: 1979  
 real functions theory, general topology

<b>Csiszár, Imre</b> (Miskolc, 1938) C.M.: 1990; O.M.: 1995 mathematics, mathematical statistics, information theory	<b>Laczkovich, Miklós</b> (Budapest, 1948) C.M.: 1993; O.M.: 1998 mathematics, real function theory	CORRESPONDING MEMBERS
<b>Daróczy, Zoltán</b> (Bihartorda, 1938) C.M.: 1985; O.M.: 1990 mathematical analysis	<b>Leindler, László</b> (Kecskemét, 1935) C.M.: 1973; O.M.: 1982 analysis	<b>Csörgő, Sándor</b> (Egerfarmos, 1947) C.M.: 2001 probability theory and mathemati- cal statistics
<b>Demetrovics, János</b> (Püspökladány, 1946) C.M.: 1987; O.M.: 1995 information science, computer science	<b>Lovász, László</b> (Budapest, 1948) C.M.: 1979; O.M.: 1985 computer science	<b>Hatvani, László</b> (Csongrád, 1943) C.M.: 1998 mathematics, differential equations
<b>Fejes Tóth, László</b> (Szeged, 1915) C.M.: 1962; O.M.: 1970 discrete geometry	<b>Prékopa, András</b> (Nyíregyháza, 1929) C.M.: 1979; O.M.: 1985 operational research	<b>Rónyai, Lajos</b> (Szekszárd, 1955) C.M.: 2001 computation, algebra
<b>Fritz, József</b> (Magyaróvár, 1943) C.M.: 1995, O.M.: 2001 mathematical physics, probability theory	<b>Révész, Pál</b> (Budapest, 1934) C.M.: 1982; O.M.: 1987 number theory	<b>Ruzsa Z., Imre</b> (Budapest, 1953) C.M.: 1998 number theory, probability theory
<b>Gécseg, Ferenc</b> (Zalavár, 1939) C.M.: 1987; O.M.: 1995 theory of automata	<b>Szász, Domokos</b> (Budapest, 1941) C.M.: 1990; O.M.: 1995 dynamic systems, mathematical statistical physics	<b>Sárközy, András</b> (Budapest, 1941) C.M.: 1998 number theory
<b>Győry, Kálmán</b> (Ózd, 1940) C.M.: 1993; O.M.: 1998 mathematics, number theory	<b>Szemerédi, Endre</b> (Budapest, 1940) C.M.: 1982; O.M.: 1987 combinatorics, number theory, algorithm theory	<b>Simonovits, Miklós</b> (Budapest, 1943) C.M.: 2001 combinatorics, algorithm theory
<b>Hajnal, András</b> (Budapest, 1931) C.M.: 1976; O.M.: 1982 set theory, combinatorics	<b>T. Sós, Vera</b> (Budapest, 1930) C.M.: 1985; O.M.: 1990 combinatorics, number theory	EXTERNAL MEMBERS
<b>Halász, Gábor</b> (Budapest, 1941) C.M.: 1987; O.M.: 1995 mathematics	<b>Tandori, Károly</b> (Újvidék, 1925) C.M.: 1965; O.M.: 1976 Fourier analysis	<b>Aczél, János</b> (Budapest, 1924) E.M.: 1990 mathematics
<b>Katona, Gyula</b> (Budapest, 1941) C.M.: 1995, O.M.: 2001 combinatorics, computer science	<b>Totik, Vilmos</b> (Mosonmagyaróvár, 1954) C.M.: 1993, O.M.: 2001 mathematics	<b>Ajtai, Miklós</b> (Budapest, 1946) E.M.: 1995 mathematical logic, theoretical computer science, discrete mathe- matics
<b>Kátai, Imre</b> (Kiskunlacháza, 1938) C.M.: 1979; O.M.: 1985 analytical number theory, fractal geometry	<b>Tusnády, Gábor</b> (Mátészalka, 1941) C.M.: 1995, O.M.: 2001 mathematical statistics	<b>Bollobás, Béla</b> (Budapest, 1943) E.M.: 1990 mathematics, combinatorics

- Csörgő, Miklós** (Egerfarnos, 1932)  
E.M.: 1995  
probability theory, mathematical statistics
- Frankl, Péter**  
(Kaposvár, 1953)  
E.M.: 1998  
mathematics (combinatorics)
- Fuchs, László** (Budapest, 1924)  
E.M.: 1990  
algebra
- Galambos, János** (Zirc, 1940)  
E.M.: 1993  
probability theory, probabilistic number theory
- Grätzer, György**  
(Budapest, 1936)  
E.M.: 1998  
lattice theory, universal algebra
- Horváth, János**  
(Budapest, 1924)  
E.M.: 1998  
mathematics (linear functional analysis)
- Kiss, Elemér** (Brassó, 1929)  
E.M.: 2001  
algebra, Bolyai studies
- Kollár, János**  
(Budapest, 1956)  
E.M.: 1995  
mathematics, algebraic geometry
- Kolumbán, József**  
(Gyergyószentmiklós, 1935)  
E.M.: 2001  
non-linear analysis
- Komlós, János** (Budapest, 1942)  
E.M.: 1998  
stochastics, discrete mathematics, computer science
- Korányi, Ádám** (Szeged, 1932)  
E.M.: 2001  
geometry, integral theory
- Makkai, Mihály** (Budapest, 1939)  
E.M.: 1995  
algebraic logic, model theory, category theory in logic
- Takács, Lajos** (Maglód, 1924)  
E.M.: 1993  
probability theory
- Halmos, Paul R.** (Budapest, 1916)  
H.M.: 1979  
mathematics
- Kahane, Jean-Pierre** (Paris, 1926)  
H.M.: 1988  
mathematics
- Lax, Peter David** (Budapest, 1926)  
H.M.: 1993  
functional analysis and its applications
- Nikolski, Sergei M.** (1905)  
H.M.: 1976  
mathematics
- Rudin, Mary Ellen**  
(Hillsboro, Texas, 1924)  
H.M.: 1995  
set-theoretical topology
- Salomaa, Arto** (Turku, 1934)  
H.M.: 1998  
mathematics, computer science
- Schinzel, Andrzej**  
(Sandomierz, 1937)  
H.M.: 2001  
number theory
- Sinai, Iakov Grigorievich**  
(Moscow, 1935)  
H.M.: 1993  
mathematics
- Szekeres, György** (Budapest, 1911)  
H.M.: 1986  
mathematics
- Thirring, Walter** (Vienna, 1927)  
H.M.: 1998  
mathematical physics

## HONORARY MEMBERS

**Baker, Alan** (London, 1939)  
H.M.: 2001  
number theory

**Burkard, Rainer** (Graz, 1943)  
H.M.: 1998  
operational research

**Carleson, Lennart A.E.**  
(Stockholm, 1928)  
H.M.: 1986  
mathematics

**Foias, Ciprian** (Resita, 1933)  
H.M.: 1993  
mathematical analysis

**Graham, Ronald L.**  
(Taft, California, 1935)  
H.M.: 2001  
computational geometry, cluster theory

IV. SECTION OF AGRICULTURAL SCIENCES

H-1051 Budapest, Nádor utca 7  
 Phone: (36-1) 411 6310  
 Fax: (36-1) 411 6162  
 E-mail: [esardi@office.mta.hu](mailto:esardi@office.mta.hu)  
 Chairman: JÁNOS DOHY, O.M.  
 Vice-chairman: REZSŐ SOLYMOS,  
 C.M.  
 Secretary: ÉVA SÁRDI, C.SC.

SCIENTIFIC COMMITTEES  
 OF THE SECTION

*Committee on Agricultural  
 Biotechnology*  
*Committee on Agricultural Economics*  
*Committee on Agricultural  
 Engineering*  
*Committee on Agricultural History  
 and Rural Sociology*  
*Committee on Agricultural Water  
 Management*  
*Committee on Animal Husbandry  
 and Foraging*  
*Committee on Biometrics and  
 Biomathematics*  
*Committee on Forestry*  
*Committee on Horticulture*  
*Committee on Marketing*  
*Committee on Plant Breeding*  
*Committee on Plant Cultivation*  
*Committee on Plant Protection*  
*Committee on Soil Science and  
 Agricultural Chemistry*  
*Committee on Veterinary Science*  
*Committee on Animal  
 Experiments*

ORDINARY MEMBERS

**Balázs, Ervin**  
 (Budapest, 1948)  
 C.M.: 1995, O.M.: 2001  
 molecular plant pathology, plant  
 virology

**Balázs, Sándor** (Szegvár, 1925)  
 C.M.: 1982; O.M.: 1990  
 horticulture

**Bócsa, Iván** (Arad, 1926)  
 C.M.: 1990; O.M.: 1995  
 genetics, breeding and seed pro-  
 duction for arable crops

**Csáki, Csaba** (Túrkeve, 1940)  
 C.M.: 1987; O.M.: 1993  
 agricultural economics

**Cselőtei, László** (Rákospalota, 1925)  
 C.M.: 1970; O.M.: 1976  
 horticulture (irrigation)

**Dimény, Imre** (Komolló, 1922)  
 C.M.: 1982; O.M.: 1990  
 agricultural economics (technolog-  
 ical development)

**Dohy, János** (Debrecen, 1934)  
 C.M.: 1993; O.M.: 1998  
 applied animal genetics and breed-  
 ing, animal breeding biotechnology

**Dudits, Dénes**  
 (Mosonmagyaróvár, 1943)  
 C.M.: 1990; O.M.: 1995  
 molecular and cellular plant biolo-  
 gy, biotechnology

**Győrffy, Béla**  
 (Kemenesmagasi, 1928)  
 C.M.: 1987; O.M.: 1993  
 plant cultivation

**Harnos, Zsolt** (Budapest, 1941)  
 C.M.: 1995, O.M.: 2001  
 agroinformatics

**Horn, Artúr** (Cairo, 1911)  
 C.M.: 1961; O.M.: 1967  
 applied animal genetics, cattle  
 breeding

**Horn, Péter** (Budapest, 1942)  
 C.M.: 1985; O.M.: 1993  
 agricultural science, applied  
 animal genetics

**Horváth, József** (Keszthely, 1936)  
 C.M.: 1995, O.M.: 2001  
 agricultural science, plant  
 protection, virology

**Király, Zoltán** (Óbecse, 1925)  
 C.M.: 1973; O.M.: 1982  
 plant pathology, pathophysiology

**Klement, Zoltán** (Budapest, 1926)  
 C.M.: 1985; O.M.: 1993  
 plant pathology, pathophysiology

**Kovács, Ferenc**  
 (Somogyszentpál, 1921)  
 C.M.: 1976; O.M.: 1982  
 environmental physiology, animal  
 hygiene

**Kozma, Pál** (Gyulaháza, 1920)  
 C.M.: 1967; O.M.: 1973  
 biology, genetics and breeding  
 of vine

**Kurnik, Ernő**  
 (Mecsekszabolcs, 1913)  
 C.M.: 1970; O.M.: 1976  
 plant breeding and cultivation

**Láng, István** (Mohács, 1931)  
 C.M.: 1979; O.M.: 1985  
 environmental science

**Magyar, János** (Csomád, 1911)  
 C.M.: 1967; O.M.: 1985  
 forest management

**Mészáros, János** (Nádudvar, 1927)  
 C.M.: 1976; O.M.: 1982  
 infectious diseases of domestic  
 animals

- Rajki, Sándor** (Pusztaföldvár, 1921)  
C.M.: 1976; O.M.: 1990  
genetics, plant breeding
- Sáringer, Gyula**  
(Magyarszerdahely, 1928)  
C.M.: 1990; O.M.: 1995  
plant protectional zoology, experimental insect ecology
- Stefanovits, Pál** (Kassa, 1920)  
C.M.: 1970; O.M.: 1976  
pedology, agricultural environment protection
- Tomcsányi, Pál** (Budapest, 1924)  
C.M.: 1990; O.M.: 1995  
agricultural marketing, evaluation of plant varieties, information management
- Várallyay, György**  
(Debrecen, 1935)  
C.M.: 1993; O.M.: 1998  
soil science, agroecology and environment protection
- CORRESPONDING MEMBERS
- Heszky, László** (Győr, 1945)  
C.M.: 1998  
plant genetics, breeding and biotechnology
- Hornok, László** (Újpest, 1947)  
C.M.: 2001  
agricultural microbiology
- Nagy, Béla** (Debrecen, 1941)  
C.M.: 1998  
veterinary microbiology and epidemiology
- Németh, Tamás** (Szombathely, 1952)  
C.M.: 2001  
soils, agrochemistry
- Schmidt, János** (Feketeerdő, 1935)  
C.M.: 2001  
fodder science
- Solymos, Rezső**  
(Bejczygyertyános, 1929)  
C.M.: 1998  
forestry, silviculture, yield production, forest management
- Varga, János** (Győr, 1941)  
C.M.: 2001  
veterinary microbiology, epidemiology
- EXTERNAL MEMBERS
- Bornemisza, Elemér**  
(Arad, 1930)  
E.M.: 1993  
pedology, tropical soils
- Kastori, Rudolf**  
(Karlovac, 1935)  
E.M.: 1998  
physiology of agricultural plants
- Kosztarab, Mihály**  
(Bucharest, 1927)  
E.M.: 1995  
entomology, biology
- Maliga, Pál** (Budapest, 1946)  
E.M.: 2001  
plant molecular genetics
- Németh, Ferenc**  
(Iván, 1933)  
E.M.: 1998  
veterinary medicine, clinical zotherapy
- Rédei, György**  
(Vienna, 1921)  
E.M.: 1990  
classical and molecular plant genetics
- Salamon, István**  
(Marosvásárhely, 1918)  
E.M.: 1993  
reproduction biology of domestic animals
- Somogyi, Árpád** (Környe, 1937)  
E.M.: 2001  
pharmacology, toxicology
- HONORARY MEMBERS
- Borlaug, Norman E.**  
(Crespo, Iowa, 1914)  
H.M.: 1980  
agriculture, corn and wheat breeding
- Boyazoglu, Jean**  
(Alexandria, 1937)  
H.M.: 2001  
genetics, agrarian economy
- Dakov, Mako Petrov**  
(Resseletz, 1920)  
H.M.: 1986  
forestry
- Ernst, Lev Konstantinovich**  
(St. Senikovo, 1929)  
H.M.: 1998  
animal husbandry
- Goodman, Robert N.**  
(Yonkers, New York, 1921)  
H.M.: 1987  
plant pathology
- Johnson, Stanley R.**  
(USA, 1938)  
H.M.: 1998  
agricultural economics
- Kudrna, Karel**  
(Sudoměřice u Bečhyne, 1924)  
H.M.: 1988  
agricultural systems

**Mac Key, James**  
(Várberg, 1919)  
H.M.: 1986  
agricultural science, genetics

**Müller, Georg**  
(Budaörs, 1917)  
H.M.: 1986  
soil biology

**Rott, Rudolf** (1927)  
H.M.: 1988  
virology

**Rübensam, Eric**  
(Jaasde, 1922)  
H.M.: 1983  
agriculture, pasture economy,  
pedology

**Schönmuth, Georg**  
(Frankena, 1928)  
H.M.: 1985  
agricultural science

**Vasil, Indra K.** (Basti, 1932)  
H.M.: 1998  
molecular and biotechnological  
plant breeding

**Vrtiak, Otto Jaroslav**  
(Danová, 1924)  
H.M.: 1983  
virology

**Zawadzki, Saturin** (Radom, 1923)  
H.M.: 1998  
pedology

## V. SECTION OF MEDICAL SCIENCES

*H-1051 Budapest, Nádor utca 7*  
*Phone: (36-1) 411 6331*  
*Fax: (36-1) 411 6239*  
*E-mail: kurtine@office.mta.hu*  
*Chairman: GYULA TELEGDY,*  
O.M.  
*Vice-chairman: KÁLMÁN MAGYAR,*  
O.M.  
*Secretary: MIKLÓS TÓTH, C.Sc.*

### SCIENTIFIC COMMITTEES OF THE SECTION

*Committee on Clinical Medicine I*  
*(Conservative)*

*Committee on Clinical Medicine II*  
*(Surgical)*

*Committee on Diagnostics*

*Committee on Preventive Medicine*

*Committee on Theoretical Medicine*  
*Multi-Section Complex Committee*  
*on Pharmaceutics*

### ORDINARY MEMBERS

**Eckhardt, Sándor**  
(Budapest, 1927)  
C.M.: 1985; O.M.: 1990  
clinical oncology, pharmaceutical  
research

**Gáti, István** (Bonyhád, 1922)  
C.M.: 1987; O.M.: 1993  
obstetrics-gynaecology,  
endocrinology

**Halász, Béla** (Kalaznó, 1927)  
C.M.: 1979; O.M.: 1985  
neuroendocrinology, anatomy,  
histology

**Hollán, Zsuzsa**  
(Budapest, 1920)  
C.M.: 1973; O.M.: 1982  
haematology, immunology, blood  
transfusion

**Ihász, Mihály** (Vaszar, 1931)  
C.M.: 1990; O.M.: 1995  
surgical gastroenterology

**Jobst, Kázmér** (Pécs, 1924)  
C.M.: 1982; O.M.: 1990  
clinical chemistry

**Knoll, József** (Kassa, 1925)  
C.M.: 1970; O.M.: 1979  
pharmacology

**Lapis, Károly** (Túrkeve, 1926)  
C.M.: 1970; O.M.: 1979  
experimental tumour research,  
hepatology, ultrastructural research

**Magyar, Kálmán**  
(Szentlőrincváta, 1933)  
C.M.: 1987; O.M.: 1995  
pharmaco-biochemistry of the  
central nervous system

**Méhes, Károly**  
(Budapest, 1936)  
C.M.: 1990; O.M.: 1995  
clinical genetics

**Muszbek, László**  
(Sárrétudvari, 1942)  
C.M.: 1990; O.M.: 1995  
blood coagulation

**Nász, István** (Túrkeve, 1927)  
C.M.: 1979; O.M.: 1985  
microbiology, virology

**Palkovits, Miklós**  
(Budapest, 1933)  
C.M.: 1990; O.M.: 1995  
neuroanatomy, neuroen-  
docrinology

**Papp, Gyula**  
(Szigetvár, 1937)  
C.M.: 1993; O.M.: 1998  
experimental cardiology, pharma-  
cology of the heart and the  
vascular system

- Pásztor, Emil** (Budapest, 1926)  
C.M.: 1979; O.M.: 1987  
neurosurgery
- Petrányi, Győző** (Szeged, 1933)  
C.M.: 1990; O.M.: 1998  
immunogenetics, transplantation  
immunology
- Romics, László** (Érd, 1936)  
C.M.: 1995, O.M.: 2001  
internal medicine
- Spät, András** (Budapest, 1940)  
C.M.: 1993; O.M.: 1998  
physiology, molecular  
endocrinology
- Szegedi, Gyula** (Újszász, 1936)  
C.M.: 1995, O.M.: 2001  
internal pathology, clinical  
immunology
- Szolcsányi, János** (Budapest, 1938)  
C.M.: 1995, O.M.: 2001  
medical science
- Telegdy, Gyula**  
(Nagyszeben, 1935)  
C.M.: 1990; O.M.: 1995  
neurobiology
- Vizi, E. Szilveszter**  
(Budapest, 1936)  
C.M.: 1985; O.M.: 1990  
pharmacology, neuroscience
- CORRESPONDING MEMBERS
- Ádám, Veronika**  
(Nagykanizsa, 1949)  
C.M.: 2001  
neuroscience, neurochemistry
- Besznyák, István** (Eger, 1931)  
C.M.: 1998  
medical science
- Dobozy, Attila** (Szeged, 1939)  
C.M.: 1998  
dermatology, immunology
- Kosztolányi, György**  
(Szekszárd, 1942)  
C.M.: 2001  
medical genetics
- Kovács, László**  
(Sátoraljaújhely, 1939)  
C.M.: 1998  
cell physiology
- Makara, B. Gábor**  
(Budapest, 1939)  
C.M.: 1998  
neuroendocrinology
- Sótonyi, Péter** (Budapest, 1938)  
C.M.: 2001  
judicial pathology
- Tulassay, Tivadar** (Galánta, 1949)  
C.M.: 2001  
pediatrics, neonatology
- Vécsei, László**  
(Kiskunfélegyháza, 1954)  
C.M.: 2001  
clinical and experimental  
neurology
- EXTERNAL MEMBERS
- Ambrus, Clara** (Rome, 1924)  
E.M.: 2001  
pediatrics, haematology
- Ambrus, Gyula**  
(Budapest, 1924)  
E.M.: 1993  
haematology, oncology
- Bauer, Győző** (Érsekújvár, 1942)  
E.M.: 1998  
gastroenterology
- Berde, Botond** (Nagyenyed, 1919)  
E.M.: 1993  
pharmacology
- Brassai, Zoltán**  
(Marosvásárhely, 1935)  
E.M.: 1998  
internal medicine
- Diczfalusy, Egon** (Miskolc, 1920)  
E.M.: 1998  
reproductional endocrinology
- Erdős, Ervin G.** (Budapest, 1922)  
E.M.: 1995  
neurobiochemistry
- Frühling, János** (Budapest, 1937)  
E.M.: 2001  
nuclear medicine
- Huszár, B. Gábor**  
(Budapest, 1938)  
E.M.: 1998  
andrology
- Jakó, Géza** (Budapest, 1930)  
E.M.: 2001  
ear nose and throat medicine
- Kúnos, György**  
(Budapest, 1942)  
E.M.: 1995  
pharmacology
- Lajtha, Ábel** (Budapest, 1922)  
E.M.: 1990  
biochemistry
- Lóránd, László** (Győr, 1923)  
E.M.: 1995  
biochemistry of blood coagulation,  
transglutaminases, gerontology
- Mody, István** (Marosvásárhely,  
1957)  
E.M.: 2001  
neurology

**Róbert, László** (Budapest, 1924)  
E.M.: 1995  
biochemistry

**Sinkovics, G. József**  
(Budapest, 1924)  
E.M.: 1993  
internal medicine, microbiology,  
immunology, oncology, virology

HONORARY MEMBERS

**Berkowitz, Ross Stuart** (Utica,  
1949)  
H.M.: 1998  
pregnancy tophoblast diseases,  
ovarian cancer

**Bernard, Jean Alfred**  
(Paris, 1907)  
H.M.: 1979  
haematology

**Bowman, William C.** (1930)  
H.M.: 1995  
physiology, pharmacology

**Chazov, Ievgenii I.**  
(Gorkii, 1929)  
H.M.: 1988  
cardiology

**Dausset, Jean** (Toulouse, 1916)  
H.M.: 1969  
immunogenetics

**De Wied, David** (Deventer, 1925)  
H.M.: 1990  
neuropeptides

**Diehl, Volker** (Berlin, 1938)  
H.M.: 1998  
haematology, oncology

**Gryglewski, Ryszard Jerzy**  
(Wilno, 1932)  
H.M.: 1998  
medical science

**Klein, György** (Budapest, 1925)  
H.M.: 1983  
tumour biology

**Lown, Bernard** (1921)  
H.M.: 1988  
cardiology

**Müller, Mathias M.** (Vienna, 1942)  
H.M.: 2001  
laboratory medicine

**Orlowski, Tadeusz** (Kazan, 1917)  
H.M.: 1970  
nephrology, organ transplantation

**Petrovskii, Boris V.** (1908)  
H.M.: 1965  
surgery

**Ruskoaho, Heikki**  
(Kemi, 1942)  
H.M.: 2001  
cardiovascular endocrinology

**Seitelberger, Franz**  
(Vienna, 1916)  
H.M.: 1986  
neurology, neuropathology

**Thurau, Klaus**  
(Bautzen, 1928)  
H.M.: 1986  
physiology, nephrology

**Weber, George** (1922)  
H.M.: 1986  
chemotherapy

**Winkler, Hans**  
(Innsbruck, 1939)  
H.M.: 1998  
pharmacology

**Yrribar, Wilfredo Torres**  
(Guantánamo, 1933)  
H.M.: 1983  
medical science

VI. SECTION OF TECHNICAL SCIENCES

*H-1051 Budapest, Nádor utca 7*  
*Phone: (36-1) 411 6314*  
*Fax: (36-1) 411 6122*  
*E-mail: muszaki@office.mta.hu*  
*Chairman: LÁSZLÓ SOMLYÓDY,*  
*O.M.*  
*Vice-chairman: JÓZSEF GYULAI,*  
*O.M.*  
*Secretary: GYULA CZEGLÉDI*

COMMITTEES OF THE SECTION

*Committee on Architecture*  
*Committee on Automation and*  
*Computer Science*  
*Committee on Electrical Engineering*  
*Committee on Electronic Devices*  
*and Technologies*  
*Committee on Energetics*  
*Committee on Fibre Technology*  
*Committee on Hydrodynamics and*  
*Thermal Energy Engineering*

*Committee on Information Science*  
*Committee on Materials Science and*  
*Technology*  
*Committee on Mechanical Structures*  
*Committee on Metallurgy*  
*Committee on Telecommunication*  
*Systems*  
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*Theory of Architecture*  
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*Applied Mechanics*  
*Committee on Town Planning*



*Committee on Transport  
Engineering*

*Committee on Water Management  
Complex Committee on Acoustics*

ORDINARY MEMBERS

**Bokor, József** (Tiszadob, 1948)  
C.M.: 1998, O.M.: 2001  
system and control theory,  
computer control systems

**Czibere, Tibor** (Tapolca, 1930)  
C.M.: 1976; O.M.: 1985  
hydromechanics, hydrodynamic  
machines

**Csibi, Sándor** (Szeged, 1927)  
C.M.: 1979; O.M.: 1987  
coding and statistical methods of  
information transmission and  
processing

**Csurgay, Árpád István**  
(Budapest, 1936)  
C.M.: 1985; O.M.: 1993  
theory of circuits, physical electronics

**Finta, József** (Kolozsvár, 1935)  
C.M.: 1985; O.M.: 1993  
architecture, theory of architecture,  
spatial aesthetics

**Gáspár, Zsolt** (Budapest, 1944)  
C.M.: 1993; O.M.: 1998  
theory and mechanics of structures

**Györfi, László** (Hercegfalva, 1947)  
C.M.: 1995, O.M.: 2001  
mathematics (non-parametric  
statistics)

**Gyulai, József**  
(Hódmezővásárhely, 1933)  
C.M.: 1990; O.M.: 1995  
material science, technology of  
semiconductors

**Kalischky, Sándor** (Diósgyőr, 1927)  
C.M.: 1990; O.M.: 1995  
mechanics, plasticity theory

**Keviczky, László** (Ráckeve, 1945)  
C.M.: 1985; O.M.: 1993  
control theory

**Kollár, Lajos** (Budapest, 1926)  
C.M.: 1990; O.M.: 1995  
static and dynamic problems of  
supporting structures

**Kozák, Imre** (Gór, 1930)  
C.M.: 1995, O.M.: 2001  
inanimate natural science and  
engineering

**Lévai, András** (Oravica, 1908)  
C.M.: 1962; O.M.: 1973  
energetics, nuclear technology,  
environment protection

**Lukács, József** (Budapest, 1925)  
C.M.: 1973; O.M.: 1985  
semiconductor technology, molecu-  
lar reaction dynamics

**Michelberger, Pál**  
(Vecsés, 1930)  
C.M.: 1982; O.M.: 1990  
engineering

**Mosonyi, Emil**  
(Budapest, 1910)  
C.M.: 1951; O.M.: 1991  
hydrotechnology, utilisation of  
hydropower, hydrology

**Nagy, István** (Budapest, 1931)  
C.M.: 1993; O.M.: 1998  
power electronics, motion control

**Páczelt, István**  
(Nyírparasznya, 1939)  
C.M.: 1987; O.M.: 1995  
mechanical engineering, finite  
element method

**Prohászka, János** (Budapest, 1920)  
C.M.: 1970; O.M.: 1982  
material science and technology

**Reményi, Károly**  
(Pestszenterzsébet, 1934)  
C.M.: 1987; O.M.: 1998  
energetics, combustion technology

**Roska, Tamás** (Budapest, 1940)  
C.M.: 1993; O.M.: 1998  
electronics, information technology

**Somlyódy, László**  
(Kecskemét, 1943)  
C.M.: 1990; O.M.: 1998  
water management, water quality  
management

**Szabó, Ferenc** (Gyoma, 1926)  
C.M.: 1982; O.M.: 1998  
reactor physics, reactor technology

**Szabó, János** (Budapest, 1920)  
C.M.: 1970; O.M.: 1979  
theoretical and applied mechanics

**Tarnai, Tibor** (Hatvan, 1943)  
C.M.: 1995, O.M.: 2001  
mechanics of structures

**Terplán, Zénó**  
(Hegyeshalom, 1921)  
C.M.: 1990; O.M.: 1995  
machine construction

**Tuschák, Róbert**  
(Salgótarján, 1927)  
C.M.: 1982; O.M.: 1990  
machine construction

**Vajda, György** (Budapest, 1927)  
C.M.: 1976; O.M.: 1982  
energetics, electrotechnics

**Vajna, Zoltán** (Kolozsvár, 1928)  
C.M.: 1993; O.M.: 1998  
hydrodynamics

**Vámos, Tibor** (Budapest, 1926)  
C.M.: 1973; O.M.: 1979  
computer science

CORRESPONDING MEMBERS

**Arató, Péter** (Budapest, 1942)  
C.M.: 2001  
digital technology, logical synthesis

**Ginsztler, János** (Budapest, 1943)  
C.M.: 2001  
matter technology, high temperatures

**Haszpra, Ottó**  
(Budapest, 1928)  
C.M.: 1998  
hydraulics, hydrotechnology

**Kollár, László Péter**  
(Budapest, 1958)  
C.M.: 2001  
composite structures, seismic effects

**Pap, László** (Diósgyőr, 1943)  
C.M.: 2001  
electronics, communications

**Sitkei, György**  
(Orosháza, 1931)  
C.M.: 1998  
thermal power and agricultural machines, mechanics of soil cultivating machines

**Stefán, Mihály**  
(Bódvaszilas, 1932)  
C.M.: 1976  
material science

**Stépán, Gábor**  
(Budapest, 1953)  
C.M.: 2001  
analytic mechanics, non-linear vibrations

EXTERNAL MEMBERS

**Béla, László Antal**  
(Budapest, 1928)  
E.M.: 1990  
computer science

**Gertler, János** (Vienna, 1936)  
E.M.: 1995  
automation, technical diagnostics

**Hottovy, Tibor** (Budapest, 1923)  
E.M.: 1990  
town planning, information science

**Karádi, Gábor** (Budapest, 1924)  
E.M.: 2001  
fluid mechanics, environmental studies

**Maros, Dezső** (Hátszeg, 1920)  
E.M.: 1993  
general theory of connecting cogwheels

**Őry, Huba** (Arad, 1927)  
E.M.: 1990  
space flight, flight, mechanics of structures

**Schey, János** (Sopron, 1922)  
E.M.: 1990  
malleable shaping of metals, tribology

**Sebestyén, Gyula** (Debrecen, 1921)  
E.M.: 1990  
construction technology

**Springer, György** (Budapest, 1933)  
E.M.: 1995  
mechanics of structures, composite materials

**Szablya, János** (Budapest, 1924)  
E.M.: 2001  
electric machinery and networks

**Szabó, Barna** (Martonvásár, 1935)  
E.M.: 1995  
applied mechanics, finite element computations

HONORARY MEMBERS

**Aström, Karl Johan** (Östersund, 1934)  
H.M.: 2001  
automatic and stochastic direction, computer processes

**Balevshki, Angel Tonchev**  
(Troian, 1910)  
H.M.: 1970  
metallurgy

**Beér, János Miklós** (Budapest, 1923)  
H.M.: 1986  
combustion technology and theory

**Downs, Diarmuid** (Kilburn, 1922)  
H.M.: 1988  
internal-combustion engines

**Engelbrecht, Jüri** (1939)  
H.M.: 1998  
applied mechanics

**Holmes, Philip J.**  
(Lincolnshire, 1945)  
H.M.: 2001  
non-linear mechanics, dynamic systems

**Julesz, Béla** (Budapest, 1928)  
H.M.: 1983  
computer-aided psychophysiology

**Kálmán, Rudolf Emil** (Budapest, 1930)  
H.M.: 1976  
mathematics, systems theory

**Kerisel, Jean Lehuérou** (1908)  
H.M.: 1973  
engineering

- Krasovskii, Nikolai**  
(Jekaterinburg, 1924)  
H.M.: 1988  
control theory
- Liebowitz, Harold** (New York, 1924)  
H.M.: 1993  
fractural mechanics
- Maier, Giulio** (Capodistria, 1931)  
H.M.: 1998  
theoretical and numerical mechanics
- Mamalis, Athanasios G.**  
(Loutraki, 1941)  
H.M.: 1998  
static and dynamic powder metallurgy processes, fracture safety of thin-wall metal polymer and glass fibre materials
- Massey, James Lee**  
(Wauseon, Ohio, 1934)  
H.M.: 1993  
information theory, algebraic code theory, cryptology
- Mróz, Zenon**  
(Suchowola, 1930)  
H.M.: 2001  
theoretical and applied mechanics
- Seindlin, Aleksandr J.**  
(1916)  
H.M.: 1979  
energetics
- Stumpers, Frans L.H.M.**  
(Eindhoven, 1911)  
H.M.: 1979  
information theory
- Thoma, Manfred**  
(Neumarkt, 1929)  
H.M.: 1995  
systems theory
- Velihov, Ievgenii P**  
(Moscow, 1935)  
H.M.: 1988  
theoretical magnetohydrodynamics
- Záborszky, John**  
(Budapest, 1914)  
H.M.: 1986  
systems theory
- Zemanek, Heinz**  
(Vienna, 1920)  
H.M.: 2001  
computers, information science

## VII. SECTION OF CHEMICAL SCIENCES

*H-1051 Budapest, Nádor utca 7*  
*Phone/fax: (36-1) 411 6167*  
*Internet: [www.kfki.hu/~cheminfo/osztaly/index.html](http://www.kfki.hu/~cheminfo/osztaly/index.html)*  
*E-mail: [pappe@office.mta.hu](mailto:pappe@office.mta.hu)*  
*Chairman: SÁNDOR GÖRÖG, O.M.*  
*Vice-chairman: MIKLÓS ORBÁN,*  
*C.M.*  
*Secretary: ZEMPLÉNNÉ ÉVA PAPP,*  
*PH.D.*

SCIENTIFIC COMMITTEES  
OF THE SECTION

*Committee on Analytical Chemistry*  
*Committee on Environmental Chemistry*  
*Committee on Organic and Biomolecular Chemistry*  
*Committee on Physical Chemistry and Inorganic Chemistry*  
*Committee on Radiochemistry*  
*Complex Committee on Chemical and Processing Engineering*

*Complex Committee on Food Science*  
*Complex Committee on Material Science and Technology*

## ORDINARY MEMBERS

**Bartók, Mihály** (Szeged, 1933)  
C.M.: 1987; O.M.: 1995  
organic chemistry, heterogeneous catalysis

**Beck, Mihály** (Szőreg, 1929)  
C.M.: 1973; O.M.: 1979  
physical chemistry, reaction kinetics, co-ordination chemistry

**Benedek, Pál** (Budapest, 1921)  
C.M.: 1973; O.M.: 1987  
chemical engineering research, physical chemistry

**Bérces, Tibor** (Németbóly, 1932)  
C.M.: 1993; O.M.: 1998  
physical chemistry, reaction kinetics

**Farkas, József** (Budapest, 1933)  
C.M.: 1990, O.M.: 2001  
food science

**Görög, Sándor** (Szombathely, 1933)  
C.M.: 1987; O.M.: 1995  
analytical chemistry, pharmaceutical analyses

**Gyarmati, István** (Szeged, 1929)  
C.M.: 1982; O.M.: 1990  
theoretical and mathematical physics, physical chemistry

**Hargittai, István** (Budapest, 1941)  
C.M.: 1987; O.M.: 1993  
physical and structural chemistry

**Holló, János** (Szentes, 1919)  
C.M.: 1967; O.M.: 1976  
bioengineering

**Inczédy, János** (Budapest, 1923)  
C.M.: 1993, O.M.: 2001  
analytical chemistry

- Kálmán, Alajos** (Rákoskeresztúr, 1935)  
C.M.: 1995, O.M.: 2001  
chemical crystallography
- Kőrös, Endre** (Győr, 1927)  
C.M.: 1990; O.M.: 1993  
physical chemistry, co-ordination chemistry
- Lempert, Károly** (Budapest, 1924)  
C.M.: 1970; O.M.: 1982  
organic chemistry
- Lipták, András** (Székely, 1935)  
C.M.: 1990; O.M.: 1998  
chemistry of carbohydrates, biochemistry
- Markó, László** (Debrecen, 1928)  
C.M.: 1976; O.M.: 1987  
organometallic chemistry, homogeneous catalysis
- Márta, Ferenc** (Kiskundorozsma, 1929)  
C.M.: 1970; O.M.: 1976  
reaction kinetics, photochemistry
- Medzihradzsky, Kálmán** (Rákoscaba, 1928)  
C.M.: 1982; O.M.: 1990  
organic chemistry, peptide chemistry
- Nagy, Ferenc** (Debrecen, 1927)  
C.M.: 1965; O.M.: 1985  
physical chemistry, catalysis
- Náray-Szabó, Gábor** (Budapest, 1943)  
C.M.: 1990; O.M.: 1998  
computational chemistry
- Pálinkás, Gábor** (Budapest, 1941)  
C.M.: 1995, O.M.: 2001  
physical chemistry, solution chemistry
- Pungor, Ernő** (Vasszécsény, 1923)  
C.M.: 1967; O.M.: 1976  
analytical chemistry, electroanalytical chemistry
- Solymosi, Frigyes** (Kistelek, 1931)  
C.M.: 1982; O.M.: 1990  
physical chemistry, heterogeneous catalysis, surface chemistry
- Szántay, Csaba** (Salgótarján, 1928)  
C.M.: 1970; O.M.: 1982  
organic chemistry
- Tétényi, Pál** (Budapest, 1929)  
C.M.: 1970; O.M.: 1979  
physical chemistry, isotope chemistry
- Tóth, Klára** (Nagykanizsa, 1939)  
C.M.: 1995, O.M.: 2001  
analytical chemistry, electroanalytical chemistry
- Tőke, László** (Vönöck, 1933)  
C.M.: 1993; O.M.: 1998  
organic chemistry
- Vértes, Attila** (Türje, 1934)  
C.M.: 1993; O.M.: 1998  
nuclear chemistry
- CORRESPONDING MEMBERS
- Blaskó, Gábor** (Szombathely, 1950)  
C.M.: 2001  
organic chemistry, peptides
- Dékány, Imre** (Szeged, 1946)  
C.M.: 2001  
colloid chemistry
- Fonyó, Zsolt** (Budapest, 1943)  
C.M.: 1998  
chemical engineering science
- Gál, Sándor** (Farnos, 1933)  
C.M.: 1993  
thermoanalysis, chemical technology
- Hollósi, Miklós** (Budapest, 1941)  
C.M.: 1998  
chemistry and structural biology of peptides and proteins, chiroptical and vibrational spectroscopy
- Joó, Ferenc** (Tótkomlós, 1949)  
C.M.: 2001  
physical chemistry, catalysis
- Orbán, Miklós** (Ászár, 1939)  
C.M.: 1998  
reaction kinetics, oscillatory and dissipative chemical systems
- Penke, Botond** (Beregszász, 1942)  
C.M.: 2001  
organic chemistry, peptide chemistry
- Sohár, Pál** (Budapest, 1936)  
C.M.: 2001  
chemical structures, spectroscopy
- Szabadváry, Ferenc** (Kőszeg, 1923)  
C.M.: 1995  
history of chemistry, history of science and technology
- EXTERNAL MEMBERS
- Angyal, István János** (Budapest, 1914)  
E.M.: 1990  
organic chemistry
- B. Nagy, János** (Akasztó, 1941)  
E.M.: 2001  
physical chemistry
- Bodánszky, Miklós** (Budapest, 1915)  
E.M.: 1990  
organic chemistry, peptide chemistry

- Bodor, Miklós**  
(Szatmárnémeti, 1939)  
E.M.: 1995  
pharmaceutical research and development, theoretical and practical organic chemistry, chemical metabolism
- Horváth, Csaba** (Szolnok, 1930)  
E.M.: 1990  
chromatography, electrophoresis, biotechnology
- Kékedy, László**  
(Máramarosziget, 1920)  
E.M.: 1998  
analytical chemistry
- Kennedy, P. József** (Budapest, 1928)  
E.M.: 1993  
macromolecular chemistry
- Kováts, Ervin** (Budapest, 1927)  
E.M.: 1993  
analytical chemistry, chromatography
- Mezey, Pál** (Budapest, 1943)  
E.M.: 1998  
mathematical chemistry
- Pauncz, Rezső** (Szőreg, 1920)  
E.M.: 1995  
quantum chemistry
- Pozsgay, Vince**  
(Boldogkőváralja, 1946)  
E.M.: 1998  
organic chemistry, carbohydrate chemistry, immunology
- Pretsch, Ernő** (Budapest, 1942)  
E.M.: 2001  
analytical chemistry, electroanalysis, chemical structures
- Pulay, Péter** (Veszprém, 1941)  
E.M.: 1993  
quantum chemistry
- Rabó, Gyula** (Budapest, 1924)  
E.M.: 1993  
chemical physics, inorganic chemistry
- Sándorfy, Kamill** (Budapest, 1920)  
E.M.: 1993  
molecular, electron- and vibrational spectroscopy
- Schügerl, Károly** (Sopron, 1929)  
E.M.: 1995  
chemical engineering, biotechnology, measurement technology
- HONORARY MEMBERS
- Balaban, Alexandru T.**  
(Timisoara, 1931)  
H.M.: 2001  
organic chemistry
- Bardos, Thomas J.** (Budapest, 1915)  
H.M.: 1983  
pharmaceutical chemistry
- Caglioti, Luciano** (Rome, 1933)  
H.M.: 1995  
organic chemistry
- Che, Michel** (Lyon, 1941)  
H.M.: 1993  
heterogeneous catalysis
- Friedlander, Gerhart** (Munich, 1916)  
H.M.: 1998  
nuclear chemistry
- Knözinger, Helmut** (1935)  
H.M.: 1995  
heterogeneous catalysis, surface chemistry
- Laurent, Torvard**  
(Stockholm, 1930)  
H.M.: 1998  
medical and physiological chemistry
- Lehn, Jean-Marie** (Rosheim, 1939)  
H.M.: 2001  
supramolecular chemistry
- Malissa, Hanns**  
(Bruck an der Mur, 1920)  
H.M.: 1988  
analytical chemistry
- Oláh, György**  
(Budapest, 1927)  
H.M.: 1990  
organic chemistry
- Polanyi, John C.** (Berlin, 1929)  
H.M.: 2001  
physical chemistry, elementary reactions
- Porter, George** (Stainforth, 1920)  
H.M.: 1988  
reaction kinetics
- Rebek, Julius** (Beregszász, 1944)  
H.M.: 2001  
organic and supramolecular chemistry
- Simionescu, Cristofor I.**  
(Dumbrăveni /Suceava/, 1920)  
H.M.: 1986  
organic and molecular chemistry
- Somorjai, Gábor A.**  
(Budapest, 1935)  
H.M.: 1990  
physical chemistry
- Taube, Henry**  
(Neudorf, Canada, 1915)  
H.M.: 1988  
physical chemistry
- Thomas, John Meurig**  
(Swansea, 1932)  
H.M.: 1998  
heterogeneous catalysis, solid-state chemistry

## VIII. SECTION OF BIOLOGICAL SCIENCES

H-1051 Budapest, Nádor utca 7  
 Phone/fax: (36-1) 411 6323  
 E-mail: bio@office.mta.hu  
 Chairman: PÉTER FRIEDRICH, O.M.  
 Vice-chairman: SÁNDOR MAHUNKA,  
 C.M.  
 Secretary: IMRE SZEMES, C.Sc.

SCIENTIFIC COMMITTEES  
OF THE SECTION

*Committee on Anthropology*  
*Committee on Biochemistry and  
 Molecular Biology*  
*Committee on Biophysics*  
*Committee on Botany*  
*Committee on Cellular Biology and  
 Phylogenesis*  
*Committee on Ecology*  
*Committee on Environment and  
 Health*  
*Committee on General Microbiology*  
*Committee on Genetics*  
*Committee on Hydrobiology*  
*Committee on Immunology*  
*Committee on Nature Conservation  
 and Conservation Biology*  
*Committee on Neurobiology*  
*Committee on Plant Physiology*  
*Committee on Zoology*

## ORDINARY MEMBERS

**Ádám, György**  
 (Nagyvárad, 1922)  
 C.M.: 1970; O.M.: 1979  
 human and animal physiology,  
 psychophysiology

**Alföldi, Lajos**  
 (Miskolc, 1927)  
 C.M.: 1982; O.M.: 1990  
 microbial genetics

**Balogh, János** (Nagybocskó, 1913)  
 C.M.: 1965; O.M.: 1973  
 zoology, ecology

**Berczik, Árpád** (Budapest, 1929)  
 C.M.: 1982; O.M.: 1990  
 hydrobiology, ecology, zoology

**Borhidi, Attila** (Budapest, 1932)  
 C.M.: 1993, O.M.: 2001  
 botany, ecology, nature conserva-  
 tion

**Csányi, Vilmos** (Budapest, 1935)  
 C.M.: 1995, O.M.: 2001  
 biology, ethology

**Damjanovich, Sándor**  
 (Mátészalka, 1936)  
 C.M.: 1982; O.M.: 1990  
 cell biology, biophysics,  
 immunology

**Dénes, Géza** (Orosháza, 1925)  
 C.M.: 1973; O.M.: 1985  
 biochemistry and molecular  
 biology

**Farkas, Tibor** (Budapest, 1929)  
 C.M.: 1990; O.M.: 1998  
 biochemistry

**Fekete, Gábor** (Budapest, 1930)  
 C.M.: 1987; O.M.: 1995  
 synbiology (ecology, botany, vegeta-  
 tion research)

**Ferenczy, Lajos**  
 (Kisújszállás, 1930)  
 C.M.: 1987; O.M.: 1995  
 microbiology

**Flerkó, Béla** (Pécs, 1924)  
 C.M.: 1970; O.M.: 1982  
 neuroendocrinology

**Friédrich, Péter**  
 (Budapest, 1936)  
 C.M.: 1993; O.M.: 1998  
 biochemistry, neurobiology

**Garay, András** (Pécs, 1926)  
 C.M.: 1973; O.M.: 1993  
 biophysics

**Gergely, János** (Karcag, 1925)  
 C.M.: 1982; O.M.: 1990  
 immunology

**Gráf, László**  
 (Zalaegerszeg, 1942)  
 C.M.: 1993, O.M.: 2001  
 biochemistry and molecular  
 biology

**Hámori, József** (Fegyvernek, 1932)  
 C.M.: 1990; O.M.: 1998  
 neurobiology

**Jermly, Tibor** (Lőcse, 1917)  
 C.M.: 1976; O.M.: 1985  
 experimental insect ecology and  
 ethology, agricultural entomology

**Kondorosi, Ádám**  
 (Budapest, 1946)  
 C.M.: 1990; O.M.: 1998  
 molecular biology

**Papp, László**  
 (Aranyosgadány, 1946)  
 C.M.: 1990; O.M.: 1998  
 zootaxonomy, ecology

**Patthy, László** (Sopron, 1943)  
 C.M.: 1995, O.M.: 2001  
 molecular biology

**Pócs, Tamás** (Budapest, 1933)  
 C.M.: 1995, O.M.: 2001  
 bryology and tropical botany

**Salánki, János** (Debrecen, 1929)  
C.M.: 1976; O.M.: 1987  
neurobiology, environmental  
biology

**Szabó, István Mihály**  
(Baja, 1925)  
C.M.: 1990, O.M.: 2001  
microbiology, ecology, environmen-  
tal science

**Székely, György**  
(Püspökladány, 1926)  
C.M.: 1985; O.M.: 1993  
neurobiology

**Teplán, István**  
(Magyarkeszi, 1932)  
C.M.: 1987; O.M.: 1995  
chemistry and biology of biologi-  
cally active materials

**Tigyi, József** (Kaposvár, 1926)  
C.M.: 1967; O.M.: 1976  
biophysics (muscle and nervous  
systems), radiation biology

**Venetianer, Pál**  
(Budapest, 1935)  
C.M.: 1987; O.M.: 1995  
molecular biology

**Vida, Gábor** (Budapest, 1935)  
C.M.: 1985; O.M.: 1993  
genetics, evolution

**Wolsky, Sándor**  
(Budapest, 1902)  
C.M.: 1946; O.M.: 1946  
developmental biology, genetics,  
evolution

## CORRESPONDING MEMBERS

**Bíró, Péter** (Újfehértó, 1943)  
C.M.: 2001  
hydrobiology, fish populations

**Falus, András** (Budapest, 1947)  
C.M.: 2001  
molecular cell biology,  
immunology and cell genetics

**Fésüs, László**  
(Hernádnémeti, 1947)  
C.M.: 1998  
cellular and molecular biology

**Freund, Tamás** (Zirc, 1959)  
C.M.: 1998  
neurobiology

**Lénárd, László** (Pécs, 1944)  
C.M.: 2001  
neurobiology, behaviour science

**Mahunka, Sándor**  
(Budapest, 1937)  
C.M.: 1998  
taxonomy of Acari, faunagenetics

**Orosz, László** (Kotlina-Sepse, 1943)  
C.M.: 2001  
gene mapping, genetic  
recombinations

**Závodszy, Péter** (Debrecen, 1939)  
C.M.: 2001  
biophysics, proteins

## EXTERNAL MEMBERS

**Ács, György** (Dunaszerdahely, 1923)  
E.M.: 1990  
biochemistry

**Aszalós, Adorján** (Szeged, 1929)  
E.M.: 1995  
cancer research, cellular biology,  
biophysics

**Bodis-Wollner, Iván**  
(Szeged, 1937)  
E.M.: 2001  
neurosciences

**Buzsáki, György** (Kaposvár, 1949)  
E.M.: 2001  
neurophysiology

**Friedmann, Imre**  
(Budapest, 1921)  
E.M.: 1998  
algology, ecology of external habi-  
tats, bacteriology, space biology

**Gulyás, Balázs**  
(Budapest, 1956)  
E.M.: 1995  
neurobiology

**Kiss, István**  
(Szatmárnémeti, 1926)  
E.M.: 1993  
microbiology, biochemistry, soil  
enzymology

**Klein, Éva** (Budapest, 1925)  
E.M.: 1993  
tumour immunology

**Lányi, K. János**  
(Budapest, 1937)  
E.M.: 1993  
biochemistry, biophysics

**Lengyel, Péter** (Budapest, 1929)  
E.M.: 1993  
biochemistry

**Müller, Miklós** (Budapest, 1930)  
E.M.: 2001  
parasitology, cytology, phylogenesis

**Nagy-Tóth, Ferenc**  
(Monó, 1929)  
E.M.: 1998  
physiology and taxonomy of  
microalgae

**Orlóci, László**  
(Esztergomtábor, 1932)  
E.M.: 1990  
ecology

- Oroszlán, István** (Nagytilaj, 1927)  
E.M.: 1995  
biochemistry
- Péter, Mihály** (Sóvárad, 1929)  
E.M.: 1998  
microbiology
- Szikura, József** (Munkács, 1932)  
E.M.: 2001  
botanics
- Ullmann, Ágnes** (Szatmár, 1927)  
E.M.: 1998  
molecular biology
- Uray, Zoltán** (Kolozsvár, 1931)  
E.M.: 1998  
radiation biology
- HONORARY MEMBERS
- Bartfai, Tamas** (Budapest, 1948)  
H.M.: 2001  
biochemistry, neuropharmacology
- Cocking, Edward Ch.D.**  
(London, 1931)  
H.M.: 1995  
botany
- Demain, Arnold L.**  
(Brooklyn NY, 1927)  
H.M.: 2001  
genetics of microorganisms
- Eigen, Manfred** (Bochum, 1929)  
H.M.: 1990  
biophysics, chemistry
- Franz, Herbert** (Sopron, 1908)  
H.M.: 1983  
ecology, entomology, geology
- Gergely, John** (Budapest, 1919)  
H.M.: 2001  
biology, biomedical research
- Halver, John Emil**  
(Woodinville, 1922)  
H.M.: 1998  
food biochemistry
- Hopwood, David Alan**  
(Kinver, 1933)  
H.M.: 1990  
genetics, microbiology
- Hotchkiss, Rollin D.** (1911)  
H.M.: 1976  
molecular biology, bacterial  
physiology, genetics
- Jacob, François**  
(Nancy, 1920)  
H.M.: 1986  
physiology
- Kostiuk, Platon G.**  
(Kiev, 1924)  
H.M.: 1990  
neurophysiology
- Masao, Ito**  
(Tokyo, 1928)  
H.M.: 2001  
brain sciences
- Miledi, Ricardo**  
(Mexico, D.F., 1927)  
H.M.: 1988  
cellular and molecular biology
- Morgun, Vladimir V.**  
(Novoselitsa, 1938)  
H.M.: 2001  
plant genetics
- Murata, Norio** (1940)  
H.M.: 1998  
plant physiology
- Norton, Roy A.**  
(Rochester NY, 1947)  
H.M.: 2001  
morphology, systemics
- Oliver, G. Stephen**  
(Stratford, 1949)  
H.M.: 1998  
molecular genetics of micro-organisms
- Rapoport, Samuel M.** (Woloczysk,  
1912)  
H.M.: 1979  
biochemistry
- Raven, Peter H.** (Sacramento,  
1930)  
H.M.: 1998  
botany, genetics
- Riman, Jozef** (Horni Sucha, 1925)  
H.M.: 1986  
virus biochemistry
- Roberts, Derek Frank** (London,  
1925)  
H.M.: 1993  
human genetics
- Roizman, Bernard** (Kishinev,  
1929)  
H.M.: 1995  
microbiology
- Schally, Andrew Victor** (Vilnius,  
1926)  
H.M.: 1986  
endocrine oncology
- Schell, Jozef S.** (Antwerpen, 1935)  
H.M.: 1993  
molecular plant biology and gene  
surgery
- Smith, A. David** (Kunming, 1938)  
H.M.: 1998  
Alzheimer's disease
- Smith, John Maynard** (Elton,  
1920)  
H.M.: 1993  
evolution genetics



**Soran, Viorel**  
(Moiseni-Certeze, 1928)  
H.M.: 1995  
cellular biology

**Southwood, Th. Richard** (1931)  
H.M.: 1998  
ecology, zoology

**Suzuki, Koichi**  
(Tokyo, 1939)  
H.M.: 2001  
microbiology

**Szent-Györgyi, Andrew G.**  
(Budapest, 1924)  
H.M.: 1998  
biology

**Vágó, Szilárd** (Debrecen, 1921)  
H.M.: 1990  
comparative cytopathology

**Vánky, Kálmán**  
(Székelyudvarhely, 1930)  
H.M.: 2001  
microbiology

**Waldmann, Thomas A.**  
(New York, 1930)  
H.M.: 1998  
cellular biology, immunology,  
molecular biology

**Yinglai, Wang** (1907)  
H.M.: 1986  
biochemistry

## IX. SECTION OF ECONOMICS AND LAW

*H-1051 Budapest, Nádor utca 7*  
*Phone: (36-1) 411 6343*  
*Fax: (36-1) 411 6122*  
*E-mail: metzger@office.mta.hu*  
*Chairman: TAMÁS SZENTES, O.M.*  
*Vice-chairman: LAJOS LŐRINCZ, O.M.*  
*Secretary: GYULA METZGER, C.SC.*

### SCIENTIFIC COMMITTEES OF THE SECTION

*Committee on Demography*  
*Committee on Economics*  
*Committee on Finance*  
*Committee on Future Research*  
*Committee on Industrial Economics*  
*Committee on Labour Research*  
*Committee on Legal and Political  
Sciences*  
*Committee on Management Science*  
*Committee on Military Science*  
*Committee on Political Science*  
*Committee on Public  
Administration*  
*Committee on Regional Studies*  
*Committee on Sociology*  
*Committee on Statistics*  
*Committee on World Economics and  
Development Studies*  
*Committee on International  
Studies*

### ORDINARY MEMBERS

**Cseh-Szombathy, László**  
(Budapest, 1925)  
C.M.: 1993, O.M.: 2001  
sociology

**Csikós-Nagy, Béla** (Szeged, 1915)  
C.M.: 1982; O.M.: 1987  
economics, economic policy, price  
theory and policy

**Enyedi, György** (Budapest, 1930)  
C.M.: 1982; O.M.: 1990  
social geography, regional studies

**Erdős, Tibor** (Budapest, 1928)  
C.M.: 1987; O.M.: 1993  
economics

**Falusné Szikra, Katalin**  
(Moscow, 1924)  
C.M.: 1976; O.M.: 1985  
economics, labour economics

**Harmathy, Attila** (Budapest, 1937)  
C.M.: 1993; O.M.: 1998  
legal science, civil law

**Herczegh, Géza Gábor**  
(Nagykapos, 1928)

C.M.: 1985; O.M.: 1990  
international law

**Huszár, Tibor**  
(Veresegyháza, 1930)  
C.M.: 1983; O.M.: 1987  
historical sociology

**Király, Tibor** (Málca, 1920)  
C.M.: 1979; O.M.: 1987  
criminology

**Kornai, János** (Budapest, 1928)  
C.M.: 1976; O.M.: 1982  
economics

**Kulcsár, Kálmán** (Erdőtelek, 1928)  
C.M.: 1973; O.M.: 1982  
sociology of law, political sociology

**Lőrincz, Lajos** (Debrecen, 1935)  
C.M.: 1990; O.M.: 1998  
public law, administration science

**Mádl, Ferenc** (Bánd, 1931)  
C.M.: 1987; O.M.: 1993  
civil law

**Mátyás, Antal** (Budapest, 1923)  
C.M.: 1990; O.M.: 1995  
history of economic theories

- Peschka, Vilmos** (Budapest, 1929)  
C.M.: 1976; O.M.: 1982  
philosophy of law
- Sajó, András** (Budapest, 1949)  
C.M.: 1995, O.M.: 2001  
environmental law, sociology of law
- Simai, Mihály** (Budapest, 1930)  
C.M.: 1976; O.M.: 1985  
world economics
- Sipos, Aladár** (Kisköre, 1927)  
C.M.: 1976; O.M.: 1982  
economics, agroecomics
- Szabó, Kálmán** (Bogyoszló, 1921)  
C.M.: 1973; O.M.: 1980  
economics
- Szelényi, Iván** (Budapest, 1938)  
C.M.: 1990; O.M.: 1995  
sociology
- Szentes, Tamás** (Dunakeszi, 1933)  
C.M.: 1993; O.M.: 1998  
economics
- Vékás, Lajos** (Kolozsvár, 1939)  
C.M.: 1990; O.M.: 1995  
civil law
- CORRESPONDING MEMBERS
- Fergéné Kecskeméti, Zsuzsa** (Budapest, 1931)  
C.M.: 1998  
sociology, social policy
- Kádár, Béla** (Pécs, 1934)  
C.M.: 2001  
world economy
- Palánkai, Tibor** (Jakabszállás, 1938)  
C.M.: 1995  
economics
- Sólyom, László** (Pécs, 1942)  
C.M.: 2001  
civil law, constitutional law
- Szabó, András** (Radnót, 1928)  
C.M.: 1998  
criminology, criminal law
- Szabó, Miklós** (Tiszadorogma, 1942)  
C.M.: 2001  
martial history
- Török, Ádám** (Budapest, 1952)  
C.M.: 2001  
corporate and international economy
- Zalai, Ernő** (Budapest, 1943)  
C.M.: 1998  
economics, mathematical economics
- EXTERNAL MEMBERS
- Demény, Pál** (Nyíregyháza, 1932)  
E.M.: 2001  
population studies
- Karády, Viktor** (Budapest, 1936)  
E.M.: 1993  
historical sociology
- Kende, Péter** (Budapest, 1927)  
E.M.: 1993  
politology
- Kiss, A. Károly** (Budapest, 1925)  
E.M.: 1990  
international public law
- Lámfalussy, Sándor** (Kapuvár, 1929)  
E.M.: 1998  
economic policy, economic growth, international money market
- Szabó, Dénes** (Budapest, 1929)  
E.M.: 1993  
criminology
- Vaskovics, A. László** (Csallóköznádasd, 1936)  
E.M.: 1998  
sociology
- HONORARY MEMBERS
- Aganbegian, Abel G.** (Tbilisi, 1932)  
H.M.: 1988  
theoretical and applied economics
- Beale, Hugh** (Birmingham, 1948)  
H.M.: 2001  
civil law
- Broms, Bengt Henry G.A.** (1929)  
H.M.: 1989  
international law, constitutional law
- Eser, Albin** (Leidersbach, 1935)  
H.M.: 1993  
comparative criminal law, medical law
- Kohlmey, Günther** (Berlin, 1913)  
H.M.: 1979  
economics
- Kudriavtsev, Vladimir** (Moscow, 1923)  
H.M.: 1979  
criminal law
- Lesage, Michel** (Aire-sur-la-dys, 1933)  
H.M.: 1990  
constitutional law, administrative law

**Lukić, Radomir** (Milisevac, 1914)  
H.M.: 1976  
legal science, sociology

**Scitovsky, Tibor** (Budapest, 1910)  
H.M.: 1993  
economics

**Streissler, Erich W.** (Vienna, 1933)  
H.M.: 1988  
economic history

## X. SECTION OF EARTH SCIENCES

*H-1051 Budapest, Nádor utca 7*  
*Phone/fax: (36-1) 411 6202*  
*E-mail: nagyb@office.mta.hu*  
*Chairman: GYÖRGY PANTÓ, O.M.*  
*Vice-chairman: JÓZSEF ÁDÁM, C.M.*  
*Secretary: BÉLA NAGY, D.Sc.*

**Biró, Péter** (Budapest, 1930)  
C.M.: 1985; O.M.: 1990  
physical geodesy

**Mészáros, Ernő** (Budapest, 1935)  
C.M.: 1985; O.M.: 1990  
air chemistry

**Czelnai, Rudolf** (Miskolc, 1932)  
C.M.: 1976; O.M.: 1987  
meteorology

**Nemecz, Ernő** (Losonc, 1920)  
C.M.: 1973; O.M.: 1980  
mineralogy, geochemistry

### SCIENTIFIC COMMITTEES OF THE SECTION

*Committee on Geochemistry,  
Mineralogy and Petrology*  
*Committee on Geodesy*  
*Committee on Geography I (Social  
Geography)*  
*Committee on Geography II  
(Physical Geography)*  
*Committee on Geology*  
*Committee on Geonomy*  
*Committee on Geophysics*  
*Committee on Hydrology*  
*Committee on Meteorology*  
*Committee on Mining*  
*Committee on Palaeontology*  
*Committee on Mining Ergonomy  
and Health*

**Detrekői, Ákos** (Budapest, 1939)  
C.M.: 1990; O.M.: 1995  
geodesy, geoinformatics

**Pantó, György** (Budapest, 1936)  
C.M.: 1990; O.M.: 1995  
geochemistry, mineralogy, petrology

**Géczy, Barnabás** (Doboz, 1925)  
C.M.: 1993; O.M.: 1998  
palaeontology

**Pécsi, Márton** (Budafok, 1923)  
C.M.: 1965; O.M.: 1976  
physical geography, geomorphology

**Kapolyi, László** (Újpest, 1932)  
C.M.: 1979; O.M.: 1985  
raw material and energy manage-  
ment, systems theory of economic  
policy

**Verő, József** (Sopron, 1933)  
C.M.: 1995; O.M.: 2001  
geophysics, solar-terrestrial physics

### CORRESPONDING MEMBERS

**Kovács, Ferenc** (Győr, 1938)  
C.M.: 1987; O.M.: 1993  
mine-exploitation theory

**Ádám, József** (Kocsér, 1950)  
C.M.: 1998  
geodesy, space geodesy

**Major, György** (Beregszász, 1941)  
C.M.: 1993; O.M.: 1998  
meteorological radiation theory,  
satellite meteorology

**Árkai, Péter** (Budapest, 1944)  
C.M.: 1998  
petrology, geochemistry,  
mineralogy

### ORDINARY MEMBERS

**Ádám, Antal**  
(Szekszárd, 1929)  
C.M.: 1990; O.M.: 1993  
geophysics

**Marosi, Sándor**  
(Soltvadkert, 1929)  
C.M.: 1995; O.M.: 2001  
physical geography, geomor-  
phology, regional geography

**Hetényi, Magdolna**  
(Szentlőrinc-káta, 1944)  
C.M.: 2001  
organic geochemistry

**Bárdossy, György**  
(Budapest, 1925)  
C.M.: 1993; O.M.: 1998  
geology, geochemistry

**Meskó, Attila** (Budapest, 1940)  
C.M.: 1990; O.M.: 1995  
environmental physics, geophysics

**Márton, Péter** (Budapest, 1934)  
C.M.: 2001  
earth magnetism, geophysics

**Mészáros, Rezső** (Makó, 1942)

C.M.: 2001

social geography

**Pápay, József** (Fűr, 1939)

C.M.: 1998

exploitation of oil and natural gas reserves, underground gas storage

#### EXTERNAL MEMBERS

**Bognár, András** (Zdenica, 1937)

E.M.: 1998

general geomorphology, geocology, Quaternary research

**Hajnal, Zoltán** (Cegléd, 1933)

E.M.: 2001

earth physics, geoelectric and paleomagnetic studies

**Halasi-Kun, György**

(Zágráb, 1916)

E.M.: 1993

environment protection, hydroeconomics

**Huszár, Rudolf** (Martonos, 1941)

E.M.: 1998

atmospheric aerosol research

**Kónya, Kálmán** (Cleveland, 1943)

E.M.: 1995

blasting technology in mining and industry

**Lázár, Árpád** (Gyula, 1935)

E.M.: 1998

raw material and energy policy

**Oplatka, Gábor** (Budapest, 1935)

E.M.: 2001

transport studies

**Rybach, László** (Sopron, 1935)

E.M.: 1990

earth science, geophysics

**Salamon, Miklós**

(Balkány, 1933)

E.M.: 1998

rock mechanics, mining methods

**Váli, Gábor** (Budapest, 1936)

E.M.: 1993

atmospheric research

**Zoltai, Tibor** (Győr, 1925)

E.M.: 1990

mineralogy

#### HONORARY MEMBERS

**Burkhard, Frenzel**

(Duisburg, 1928)

H.M.: 1990

geoecology

**Dercourt, Jean** (Boulogne-

Billancourt, 1935)

H.M.: 1995

geology

**Durand-Delga, Michel**

(Gaillac, 1923)

H.M.: 1998

structural geology, stratology, ancient geology and history of science

**Fettweis, Günter B.L.**

(Düsseldorf, 1924)

H.M.: 1990

mining

**Hjelt, Sven-Erik Oskar**

(Helsinki, 1939)

H.M.: 1998

electromagnetic induction in the earth, geophysical inversion

**Hoppe, Gunnar**

(Skallvik, 1924)

H.M.: 1988

physical geography

**Jünemann, Reinhardt**

(Thaldorf, 1936)

H.M.: 1995

rheology, mining informatics

**Kautzleben, Heinz** (Kelbra, 1934)

H.M.: 1986

geophysics, geodynamics

**Kostrowicki, Jerzy**

(Kosirenien, 1918)

H.M.: 1986

geography

**Maksimovic, Zoran**

(Belgrade, 1923)

H.M.: 2001

geochemistry and crystallography

**Mensching, Horst** (Möllbergen-

Porta, 1921)

H.M.: 1986

geography, geoecology

**Moritz, Helmut** (Graz, 1933)

H.M.: 1983

geodesy

**Müller, Iván** (Budapest, 1930)

H.M.: 1988

geodesy

**Paepe, Roland** (Uitkerke, 1934)

H.M.: 1990

applied Quaternary geology, geomorphology, sedimentology

**Rummel, Reiner**

(Landshut, 1945)

H.M.: 2001

upper geodesic studies

**Torge, Wolfgang**

(Laubusch, 1931)

H.M.: 1990

mathematical and physical geodesy, gravimetry

**Vuorela, Lauri** (1913)  
H.M.: 1982  
meteorology

**Wilke, Friedrich Ludwig**  
(Essen, 1931)  
H.M.: 1998  
mining design and expert systems

**Zemann, Josef** (Vienna, 1923)  
H.M.: 1982  
mineralogy

## XI. SECTION OF PHYSICAL SCIENCES

*H-1051 Budapest, Nádor utca 7*  
*Phone: (36-1) 411 6313*  
*Fax: (36-1) 411 6122*  
*Internet: www.kfki.hu/fizoszt/index-hu.html*  
*E-mail: nemenyim@office.mta.hu*  
*Chairman: ZSOLT BOR, O.M.*  
*Vice-chairman: ZALÁN HORVÁTH, C.M.*  
*Secretary: MÁRTA NEMÉNYI*

### SCIENTIFIC COMMITTEES OF THE SECTION

*Committee on Atomic and Molecular Physics*  
*Committee on Particle Physics*  
*Committee on Nuclear Physics*  
*Committee on Laser Physics and Spectroscopy*  
*Committee on Solid-state Physics*  
*Committee on Statistical Physics*  
*Committee on Astronomy and Space Research*  
*Committee on Radiation Protection, Environmental and Reactor Physics*

### ORDINARY MEMBERS

**Berényi, Dénes** (Debrecen, 1928)  
C.M.: 1973; O.M.: 1985  
nuclear physics

**Bor, Zsolt** (Orosháza, 1949)  
C.M.: 1990; O.M.: 1995  
laser physics, optics, experimental physics

**Csikai, Gyula** (Tiszaladány, 1930)  
C.M.: 1973; O.M.: 1985  
nuclear physics, neutron physics

**Gáspár, Rezső** (Érsekvadkert, 1921)  
C.M.: 1970; O.M.: 1979  
quantum chemistry, solid-state physics

**Jánossy, András**  
(Manchester, 1944)  
C.M.: 1993; O.M.: 1998  
solid-state physics

**Keszthelyi, Lajos** (Kaposvár, 1927)  
C.M.: 1982; O.M.: 1987  
biophysics

**Kroó, Norbert** (Budapest, 1934)  
C.M.: 1985; O.M.: 1990  
solid-state physics, optics, neutron physics

**Lovas, István**  
(Gyöngyöshalász, 1931)  
C.M.: 1979; O.M.: 1987  
nuclear physics

**Marx, György** (Budapest, 1927)  
C.M.: 1970; O.M.: 1982  
particle physics, astrophysics

**Mezei, Ferenc** (Budapest, 1942)  
C.M.: 1982; O.M.: 1987  
physics

**Mihály, György** (Kaposvár, 1951)  
C.M.: 1995, O.M.: 2001  
solid-state physics

**Nagy, Károly** (Ete, 1926)  
C.M.: 1965; O.M.: 1982  
theoretical physics

**Pál, Lénárd** (Gyoma, 1925)  
C.M.: 1961; O.M.: 1973  
solid-state physics, reactor physics

**Sólyom, Jenő** (Kolozsvár, 1940)  
C.M.: 1987; O.M.: 1993  
theoretical solid-state physics

**Szépfalusy, Péter** (Szeged, 1931)  
C.M.: 1982; O.M.: 1987  
theoretical physics, statistical physics

**Vicsek, Tamás** (Budapest, 1948)  
C.M.: 1995, O.M.: 2001  
statistical physics, biophysics

**Zawadowski, Alfréd**  
(Budapest, 1936)  
C.M.: 1985; O.M.: 1990  
theoretical solid-state physics

**Zimányi, József** (Budapest, 1931)  
C.M.: 1990; O.M.: 1995  
theoretical physics, nuclear physics

### CORRESPONDING MEMBERS

**Faigel, Gyula** (Ormosbánya, 1954)  
C.M.: 2001  
experimental solid state physics

**Horváth, Zalán** (Debrecen, 1943)  
C.M.: 1998  
particle physics



- Janszky, József** (Csorna, 1943)  
C.M.: 2001  
nonlinear and quantum optics
- Kertész, János** (Budapest, 1950)  
C.M.: 2001  
statistical physics, computers
- Németh, Judit** (Budapest, 1932)  
C.M.: 1998  
nuclear physics
- Ormos, Pál** (Szeged, 1951)  
C.M.: 1998  
biophysics
- Pálinkás, József** (Galvács, 1952)  
C.M.: 1995  
physics, experimental atomic and molecular physics
- Patkós, András**  
(Budapest, 1947)  
C.M.: 2001  
theoretical particle physics
- Szalay, A. Sándor**  
(Debrecen, 1949)  
C.M.: 1990  
astrophysics
- EXTERNAL MEMBERS
- Balázs, Nándor** (Budapest, 1926)  
E.M.: 1995  
theoretical physics
- Domokos, Gábor**  
(Budapest, 1933)  
E.M.: 1995  
theoretical physics
- Fenyves, Ervin**  
(Budapest, 1924)  
E.M.: 1998  
cosmic radiation, high-energy particle physics
- Gábos, Zoltán**  
(Bánffyahunyad, 1924)  
E.M.: 1995  
theoretical physics
- Grúner, György**  
(Mosonmagyaróvár, 1943)  
E.M.: 1990  
experimental solid-state physics
- Győrffy, Balázs** (Eger, 1938)  
E.M.: 1995  
theoretical solid-state physics
- Gyulassy, Miklós** (Szolnok, 1949)  
E.M.: 1998  
high-energy theoretical physics
- Hasenfratz, Péter**  
(Budapest, 1946)  
E.M.: 2001  
theoretical particle physics
- Jenkovszky, László**  
(Ungvár, 1942)  
E.M.: 1998  
particle and nuclear physics
- Kuti, Gyula** (Budapest, 1940)  
E.M.: 1990  
theoretical particle physics
- Ladik, János** (Budapest, 1929)  
E.M.: 1993  
quantum chemistry, theoretical biophysics
- Nagy, F. András** (Budapest, 1932)  
E.M.: 1993  
space physics
- Polonyi, János** (Budapest, 1953)  
E.M.: 2001  
quantum space theory
- Spenik, Ottó** (Munkács, 1938)  
E.M.: 1998  
nuclear physics
- Toró, Tibor** (Énlaka, 1931)  
E.M.: 1993  
theoretical physics
- HONORARY MEMBERS
- Kagan, Jurin M.**  
(Moscow, 1928)  
H.M.: 1998  
theoretical solid-state physics
- Konuma, Mishiji** (Tokyo, 1930)  
H.M.: 1998  
theoretical physics
- Mössbauer, Rudolf L.**  
(Munich, 1929)  
H.M.: 1986  
physics
- Nilsson, Jan S.**  
(Göteborg, 1932)  
H.M.: 2001  
particle physics
- Nozieres, Philippe** (Paris, 1932)  
H.M.: 1990  
theoretical solid-state physics
- Pines, David**  
(Kansas City, Missouri, 1924)  
H.M.: 1995  
physics
- Pitaevskii, Lev P.**  
(Saratov, 1933)  
H.M.: 1998  
statistical physics
- Prohorov, Aleksandr M.**  
(Atherton, 1916)  
H.M.: 1976  
physics
- Rubbia, Carlo** (Gorizia, 1934)  
H.M.: 1993  
experimental particle physics

**Schopper, Herwig Franz**  
(Landskrona, 1924)  
H.M.: 1995  
experimental particle physics

**Shimizu, Sakae**  
(Tokyo, 1915)  
H.M.: 1995  
nuclear physics, radiation  
protection

**Shitenko, Alexei G.**  
(Cherniki, 1927)  
H.M.: 1998  
nuclear physics, plasma physics

**Saddeiev, Roald Z.** (Kazan, 1932)  
H.M.: 1987  
plasma physics

**Telegdi, Bálint** (Budapest, 1922)  
H.M.: 1990  
experimental particle physics

**Teller, Ede** (Budapest, 1908)  
H.M.: 1990  
physics

**Ting, Samuel C.C.**  
(Ann Arbor, Michigan, 1936)  
H.M.: 1993

**Walther, Herbert**  
(Ludwigshafen, 1935)  
H.M.: 2001  
quantum optics

# THE ORGANIZATION AND OPERATION OF THE ACADEMY

Pursuant to Act XL of 1994, the Hungarian Academy of Sciences is a public body founded on the principle of self-government and operating as a legal entity. Its main duty is the study of science, the publicizing of scientific results, the assistance of research, and the representation of Hungarian science.

The public body is composed of academicians – full and corresponding, as well as associate and honorary members – and others with an academic degree who, after applying for membership, gain admission.

Today there are 214 full members and 86 corresponding members. Those so elected by the full and corresponding members become academicians. The public body has 8644 non-academician members today.

The non-academician members of the public body exercise their rights through representation by electing 200 delegates to act on their behalf at the Academy's general assembly. The representatives are mandated for 3 years, and they may stand for reelection once.

The Academy establishes and maintains research institutes and other institutions (libraries, archives, information systems, etc.) for the study of science (today the Academy extends assistance to 42 research institutes and 125 research teams working at university and public-funded collections).

The Academy sets up and operates scientific sections and committees for the coordination of the activity of researchers working at the various institutions, research institutes, and universities (today there are 11 sections and 128 committees).

The Academy, even if not specifically requested, gives its opinion, based on research results, on questions it deems particularly important in science, society, and the economy.

In the course of its activity and carrying out its duties, the Academy

- maintains relations with Hungarian non-academic scientific institutions and organizations;
- maintains relations and enters into agreement with scientific institutions and organizations of other countries;
- organizes scientific congresses and sessions;
- posts scientific research competitions and awards prizes;
- takes part in academic qualification, awards the Doctor of the Academy title, and takes part in training PhDs.

Funds for the operation of the Academy are:

- the state budget, in which it comes under a separate heading;
- the income derived from its operation and the utilization of its assets;
- foundations, donations, and other assistance extended to promote its operation and development.

The president of the Academy submits to the government a report on the Academy's activity once every year, and to Parliament on the work of the Academy and the general state of Hungarian science once every two years.

## THE GENERAL ASSEMBLY

The General Assembly is the supreme body of the Academy as an independent public-law association, constituted by ordinary and corresponding members, and 200 representatives of non-academician members who are elected by secret ballot for a three year term. They may be re-elected once for an additional three year term.

The General Assembly adopts the Statutes, the Bylaws and the annual budget of the Academy, and determines the science policy principles and programmes affecting the entire work of the Academy. It discusses and approves the biennial report submitted to Parliament on both the Academy and the general state of science in Hungary, and the annual report presented to the Government on the Academy's activity. The General Assembly elects – for a three-year term – the leading officials of the Academy such as the President, the Vice-Presidents, the Secretary-General and the Deputy Secretary-General, and also the members of both the Presidium and the Council of the Academy's Research Units.

#### COMMITTEES OF THE GENERAL ASSEMBLY

The General Assembly elects standing committees for the performance of various special tasks. These are:

- the Council of the Academy's Research Units
- the Council of Doctors
- the Supervisory Committee
- the Board of Trustees (of the Academy's Property)
- the Committee on the Ethics of Science
- the Committee on Publishing Scientific Books and Periodicals.

##### *Council of the Academy's Research Units (CARU)*

The Academy maintains research institutes in order to ensure high-quality original research in the fields of the natural and social sciences and the humanities, runs other institutions to support their activities (i.e. libraries, archives, information system, etc.), and supports research groups affiliated to various university chairs. The present number of research institutes is 47.

These research institutes are supervised by the Council of the Academy's Research Units (CARU) which has 30 members, half of whom are elected by the General Assembly and the other half by the research institutes and other research units. CARU performs its research-related duties in close co-operation with the scientific sections. The function of its chairman is performed by the Secretary-General. CARU is helped by three advisory boards, each responsible for one of the three majors fields of science. It is the duty of these Boards to make propos-

als for the annual budgetary support and investment allocations in the case of each research institute and other research unit belonging to their respective fields of science. In co-operation with the related scientific sections and committees, these Boards also evaluate the performance of the individual research institutes.

Chairman: NORBERT KROÓ, O.M.

Secretariat: PÁL PRITZ, D.SC., ISTVÁN TEPLÁN, O.M.

##### *Council of Doctors*

The Council of Doctors may award the title of Doctor of the Hungarian Academy of Sciences to persons with a degree and with outstanding achievements in their field of learning, and who meet the conditions of obtaining this title. The Council has 25 members.

Chairman: LAJOS LÓRINCZ, O.M.

Co-chairman: ATTILA DOBOZY, C.M.

Secretary: JÁNOS PAPP, D.SC.

##### *Supervisory Committee*

The tasks of the 7-member Supervisory Committee are: to supervise the appropriate and lawful administration and management of the Academy's property, to give expert opinion to the General Assembly on the guiding principles of the Academy's annual budget and the annual budget statement.

Chairman: PÁL MICHELBERGER, O.M.

##### *Board of Trustees*

The seven members of the Board of Trustees are responsible for the promotion of the Academy's efficient property management.

Chairman: TAMÁS STRAUSZ

##### *Committee on the Ethics of Science*

Composed of 22 members, the Committee on the Ethics of Science takes a stand in matters of principle relating to the ethics of science on such issues as, the free pursuit of science and professional integrity.

Chairman: ISTVÁN GÁTI, O.M.

*Committee on Publishing Scientific Books  
and Periodicals*

The Committee on Publishing Scientific Books and Periodicals has 12 members. Its Chairman and Secretary are elected by the General Assembly, while its members are delegated by the scientific sections of the Academy. Its task is to co-ordinate the Academy's publishing policy and to promote the efficient use of the resources available for this purpose.

Chairman: LORÁND BENKŐ, O.M.  
Secretary: MIKLÓS HERNÁDI, C.Sc.

*The elected chairmen  
of the scientific sections*

FERENC KIEFER, O.M., Chairman of Section I  
FERENC PATAKI, O.M., Chairman of Section II  
KÁLMÁN GYÖRÝ, O.M., Chairman of Section III  
JÁNOS DOHY, O.M., Chairman of Section IV  
GYULA TELEGDY, O.M., Chairman of Section V  
LÁSZLÓ SOMLYÓDY, O.M., Chairman of Section VI  
SÁNDOR GÖRÖG, O.M., Chairman of Section VII  
PÉTER FRIEDRICH, O.M., Chairman of Section VIII  
TAMÁS SZENTES, O.M., Chairman of Section IX  
GYÖRGY PANTÓ, O.M., Chairman of Section X  
ZSOLT BOR, O.M., Chairman of Section XI

THE PRESIDIUM  
OF THE ACADEMY

Composed of the Academy's leading officials, of the chairmen of the sections and of members elected by the General Assembly, the Presidium assists in the preparation of the general assemblies, determines the number of new members to be elected for each of the scientific sections, and settles disputes, should they arise, between the scientific sections. Relying on proposals by the scientific sections, the Presidium makes decisions on awarding the Academy's prizes and other distinctions. It also acts as the advisory body of the President.

Members of the Presidium are:

VOTING MEMBERS

*Elected high officials of the Academy*

FERENC GLATZ, O.M., President of HAS  
GYÖRGY ENYEDI, O.M., Vice-President of HAS  
LÁSZLÓ KEVICZKY, O.M., Vice-President of HAS  
E. SZILVESZTER VIZI, O.M., Vice-President of HAS  
NORBERT KROÓ, O.M., Secretary-General of HAS  
ATTILA MESKÓ, O.M., Deputy Secretary-General of HAS

*Members elected by the General Assembly*

PÁL MICHELBERGER, O.M..  
JÁNOS GERGELY, O.M.  
ERNŐ MAROSI, C.M.  
GYÖRGY BAZSA, D.Sc.  
PÉTER SZENDRŐ, D.Sc.  
ISTVÁN OROSZ, D.Sc.

MEMBERS WITH VOICE  
BUT NO VOTE

ANDRÁS LIPTÁK, O.M., President of OTKA (Hungarian Scientific Research Fund)  
VILMOS CSÁNYI, O.M., Editor-in-Chief of the journal *Magyar Tudomány* (Hungarian Science)  
ZOLTÁN GAÁL, President of the Hungarian Rectors' Conference  
DÉNES DUDITS, O.M. (director, representative of CARU)  
TAMÁS STRAUZ (director), Chairman of the Academy's Board of Trustees  
PÁL MICHELBERGER, O.M., Chairman of the Academy's Supervisory Committee  
IMRE KOZÁK, O.M., representative of the Regional Committee

Some of the leading staff-members of the Academy's Secretariat are also regularly invited to the sessions of the Presidium.

Special committees assisting the Presidium in performing some of its important functions are:

*Programme Council  
of Strategic Researches*

Chairman: FERENC GLATZ, O.M.  
Co-chairman: ISTVÁN LÁNG, O.M.  
Secretary: MARGIT BALOGH, C.Sc.

THE INAUGURATION OF THE BUILDING OF THE ACADEMY IN 1865 WAS PERHAPS THE MOST IMPORTANT EVENT IN ITS HISTORY SINCE ITS FOUNDATION IN 1825. THE ACADEMY'S READING ROOMS, CONFERENCE ROOMS, ART GALLERY, AND RICH LIBRARY HAVE OFFERED GREAT OPPORTUNITIES FOR SCHOLARLY WORK AND DISCUSSION. SUBSEQUENT GENERATIONS HAVE DONE THEIR UTMOST TO PRESERVE AND EVEN ENHANCE THOSE OPPORTUNITIES.



JOHANN ENDER: „BORÚRA DERŰ” (CALM AFTER THE STORM)  
ALLEGORY OF THE HUNGARIAN ACADEMY OF SCIENCES (1831).

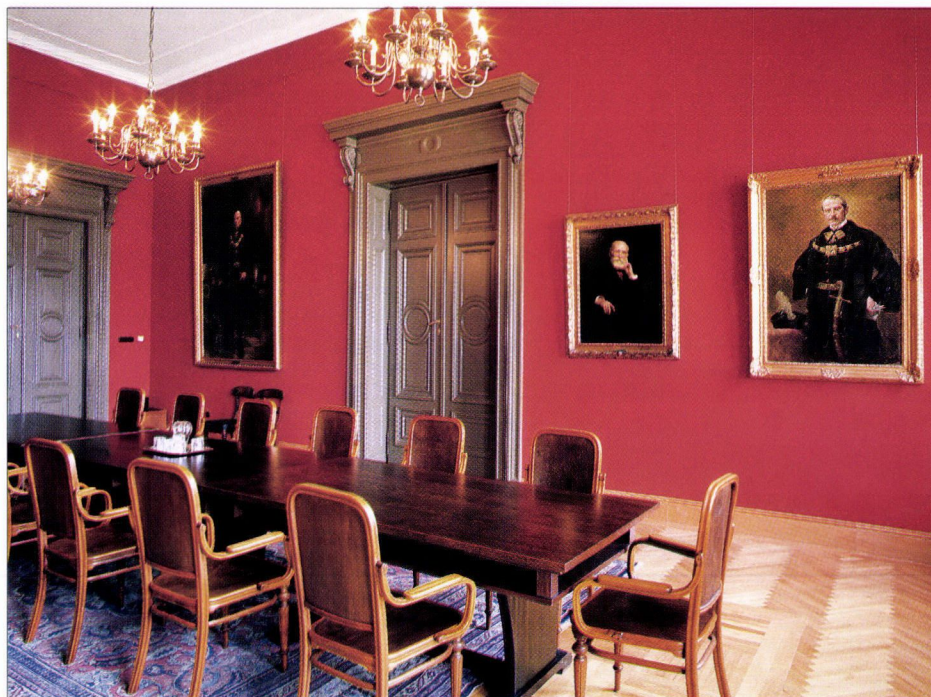




LEFT: RICHLY ORNAMENTED STAIRCASE.



RIGHT: THE CEREMONIAL HALL TODAY.



HALL OF PICTURES  
ON THE FIRST FLOOR.





THE RECEPTION ROOM OPENING INTO THE SMALL CONFERENCE ROOM.

BOTTOM LEFT: THE SCIENTISTS' CLUB TODAY.

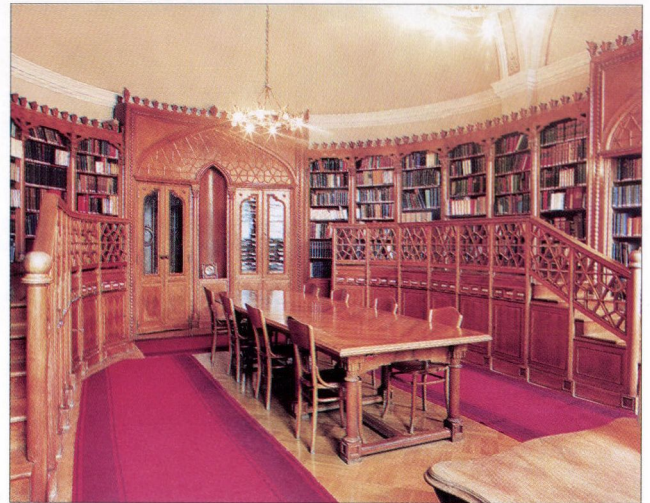
BOTTOM RIGHT: THE READING ROOM WITH ANTAL LIGETI'S OIL PAINTINGS.







THE MAIN READING ROOM OF THE ACADEMY'S LIBRARY  
AT ITS NEW HOME.



MIDDLE ROOM OF THE ORIENTAL COLLECTION. THE ARCHAIZING PANELS  
AND FURNITURE WERE MADE IN THE 1950S.

THE GENERAL ASSEMBLY IN SESSION.





*Committee on Environmental Sciences*

Chairman: ATTILA MESKÓ, O.M.

Secretary: IMRE SZEMES, C.Sc.

*Presidential Committee on Hungarian Science Abroad*

Chairman: DÉNES BERÉNYI, O.M.

Secretary: MARIANN TARNÓCZY

THE GOVERNING BOARD

This body co-ordinates the work of the Academy's top executives in conjunction with representatives from branches of science. Its membership consists of the leading officials and the representatives of each of the three major fields of study (i.e. mathematics and natural sciences, life-sciences, and social sciences). The Board sets up standing committees to solve special tasks. These are: the Committee on International Relations, and the Social Welfare Committee.

Its members are:

FERENC GLATZ, O.M., President of HAS

NORBERT KROÓ, O.M., Secretary-General of HAS

ATTILA MESKÓ, O.M., Deputy Secretary-General of HAS

LÁSZLÓ KEVICZKY, O.M., Vice-President of HAS

GYÖRGY ENYEDI, O.M., Vice-President of HAS

E. SZILVESZTER VIZI, O.M., Vice-President of HAS

ERNŐ MAROSI, C.M.

JÁNOS GERGELY, O.M.

PÁL MICHELBERGER, O.M.

ISTVÁN OROSZ, D.Sc.

KÁLMÁN PANNONHALMI, Secretary of the Panel

COMMITTEES OF THE PRESIDENT  
AND THE SECRETARY-GENERAL

In addition to above-mentioned committees of the General Assembly and the Presidium, the President and the Secretary-General shall set up special, permanent or ad hoc, joint committees for the solution of certain topical problems or problems of common concern. At present these are:

*Committee on Housing*

Chairman: LÁSZLÓ SÁRY

Secretary: JÁNOS TIVADAR

*Committee on Social Relations*

Chairman: PÉTER HORN, O.M.

Secretary: B. ISTVÁN SZABÓ, PH.D.

*Art Collection Council*

Chairmen: G. BÉLA NÉMETH, O.M.

LAJOS VAYER, O.M.

SCIENTIFIC SECTIONS

Scientific sections follow closely, promote and evaluate all activities conducted in their respective fields of study; take a stand on scientific questions as well as in matters concerning science policy and research organisation; give their opinion on the activities of the Academy's research institutes and on those of the university chairs and other research units supported by the Academy; and participate in the procedure of awarding the title of Doctor of the Hungarian Academy of Sciences.

In performing their duties, the scientific sections rely heavily on the work of special committees composed of academicians and other elected non-academician members. Their number is ... at present.

Each section is headed by a chairman, elected from among the members of that section for a term of three years.

The Academy's scientific sections are as follows:

- I. Section of Linguistics and Literary Scholarship
- II. Section of Philosophy and History
- III. Section of Mathematics
- IV. Section of Agricultural Sciences
- V. Section of Medical Sciences
- VI. Section of Technical Sciences
- VII. Section of Chemical Sciences
- VIII. Section of Biological Sciences
- IX. Section of Economics and Law
- X. Section of Earth Sciences
- XI. Section of Physical Sciences

## REGIONAL COMMITTEES

The regional committees of the Academy are organised by major geographical regions of the country and are composed of academicians and representatives of highly qualified researchers working in the given region.

The Regional Committees of the Hungarian Academy of Sciences are:

### REGIONAL COMMITTEE IN DEBRECEN

H-4032 Debrecen, Thomas Mann u. 49  
 Phone: (36-52) 412-177  
 Internet: larix.dab.hu/gdab.htm/  
 Chairman: GYÖRGY SZÉKELY, O.M.  
 Vice-chairmen: ISTVÁN BITSKEY, D.Sc.  
 ERNŐ BRÜCHER, D.Sc.  
 Secretary: JÁNOS BORSOS, D.Sc.

### REGIONAL COMMITTEE IN MISKOLC

H-3530 Miskolc, Erzsébet tér 3.  
 Phone: (36-46) 340-633  
 Internet: www.mta.hu/felepites/teruleti/mab.htm  
 Chairman: IMRE KOZÁK, O.M.  
 Vice-chairmen: IVÁN BÓCSA, O.M.  
 GYÖRGY GYURKÓ, C.Sc.  
 SÁNDOR ORBÁN, D.Sc.  
 Secretary: LÁSZLÓ ÚJSZÁSZY, C.Sc.

### REGIONAL COMMITTEE IN PÉCS

H-7624 Pécs, Jurisics Miklós u. 44  
 Phone: (36-72) 512-620  
 Chairman: JÓZSEF TIGYI, O.M.  
 Vice-chairmen: JÓZSEF HORVÁTH, O.M.  
 SÁNDOR KOMLÓSI, Ph.D.  
 TAMÁS KATONA, C.Sc.  
 Secretary: ISTVÁN FODOR, C.Sc.

### REGIONAL COMMITTEE IN SZEGED

H-6720 Szeged, Somogyi B. u. 7  
 Phone: (36-62) 420-586

Chairman: FRIGYES SOLYMOSSI, O.M.  
 Vice-chairmen: LÁSZLÓ LEINDLER, O.M.  
 PÁL ORMOS, C.M.  
 GYULA PAPP, O.M.  
 Secretary: TAMÁS KISS, D.Sc.

### REGIONAL COMMITTEE IN VESZPRÉM

H-8200 Veszprém, Vár u. 37  
 Phone: (36-88) 428-859  
 Internet: dcs.vein.hu/VEAB/  
 Chairman: LÁSZLÓ MARKÓ, O.M.  
 Vice-chairmen: ANTAL ÁDÁM, O.M.  
 GYULA SÁRINGER, O.M.  
 JÁNOS RECHNITZER, D.Sc.  
 Secretary: FERENC FRIEDLER, D.Sc.

## SZÉCHENYI ACADEMY OF LETTERS AND ARTS

H-1051 Budapest, Roosevelt tér 9  
 Phone/fax: (36-1) 331-4117

The Hungarian Academy of Sciences established the Széchenyi Academy of Letters and Arts as an associated but autonomous body with statutes of its own, to include the eminent representatives of literary and artistic life, replacing the Arts Section closed in 1949.

Leading officials:

President: MIKLÓS JANCsó  
 Managing president: LÁSZLÓ LATOR  
 Patron for life of the  
 Széchenyi Academy: DOMOKOS KOSÁRY, O.M.  
 Managing secretary: ANIKÓ KOVÁCS

The Széchenyi Academy is divided into the following sections:

Literature Section  
 Fine Arts Section I.  
 Fine Arts Section II.  
 Motion Picture and Theatre Section  
 Musical Arts Section

THE SECRETARIAT  
OF THE HUNGARIAN ACADEMY  
OF SCIENCES

The scientific sections and leading bodies of the Academy are assisted in their work by the Secretariat directed by the Secretary-General.

Divisions of the Secretariat:

*The Corporate Secretariat and the Secretariat  
of the Presidium*

H-1051 Budapest, Roosevelt tér 9  
Phone: (36-1) 331-9353  
Fax: (36-1) 332-8943  
E-mail: elnokseg@office.mta.hu  
Department Head: KÁLMÁN PANNONHALMI

*The Secretariat of the Secretary General*

H-1051 Budapest, Roosevelt tér 9  
Phone: (36-1) 311-9812  
Fax: (36-1) 312-8483  
E-mail: zilahy@office.mta.hu  
Department Head: PÉTER ZILAHY, PH.D.

*Natural Sciences Department*

H-1051 Budapest, Nádor u. 7  
Phone: (36-1) 411-6367  
Fax: (36-1) 411-6244  
E-mail: teplani@office.mta.hu  
Department Head: ISTVÁN TEPLÁN, O.M.

*Social Sciences Department*

H-1051 Budapest, Nádor u. 7  
Phone/fax: (36-1) 411-6211

E-mail: pritz@office.mta.hu  
Department Head: PÁL PRITZ, D.Sc.

*Finance Department*

H-1051 Budapest, Nádor u. 7  
Phone: (36-1) 411-6117  
Fax: (36-1) 411-6192  
E-mail: defter@office.mta.hu  
Department Head: ISTVÁN CSOMÓ

*Legal and Administrative Department*

H-1051 Budapest, Nádor u. 7  
Phone/fax: (36-1) 411-6188  
E-mail: saryl@office.mta.hu  
Department Head: LÁSZLÓ SÁRY

*International Scientific Relations  
Department*

H-1051 Budapest, Nádor u. 7  
Phone: (36-1) 411-6185  
Fax: (36-1) 411-6115  
E-mail: kardon@office.mta.hu  
Department Head: BÉLA KARDON, D.Sc.

*Public Relations and Press Office*

H-1051 Budapest, Roosevelt tér 9  
Phone/fax: (36-1) 302-5638  
E-mail: priroda@office.mta.hu  
Director: B. ISTVÁN SZABÓ, PH.D.

*Secretariat of the Council of Doctors*

H-1051 Budapest, Nádor u. 7  
Phone: (36-1) 411-6221  
Fax: (36-1) 411-6233  
Department Head: ANDRÁS TAMÁS

# STRATEGIC RESEARCHES AT THE HUNGARIAN ACADEMY OF SCIENCES

In its Resolution 113/1996. (XII.20) the Hungarian Parliament invited the Hungarian Academy of Sciences to formulate the strategic problems the nation and the state has to face, and to work out alternative solutions. Parliament earmarked HUF 300 million for this purpose in the 1997 budget, HUF 200 million in 1998, HUF 150 million in 1999, and HUF 109.2 million in 2000.

Seven important research projects were undertaken in 1997; their number increased to 14 in 1998 and to 15 in 2000 divided into 11 programmes. These programmes are designed to encourage strategic thinking in general among the politicians as well as the public.

The national strategic research programmes are co-ordinated by the Programme Council. Its leading officials are:

Chairman: FERENC GLATZ, O.M., President of HAS

Co-chairman: ISTVÁN LÁNG, O.M.

Secretary: MARGIT BALOGH, C.SC.

Council members include the programme leaders, as well as András Inotai, Ernő Kemenes (from 1999 onwards Tamás Sárközy), Károly Manherz.

An Operative Programme Committee was set up within the Programme Council, which normally holds six sessions a year; its members are: Ferenc Glatz (chairman), István Láng (co-chairman), György Enyedi, András Inotai, Ernő Kemenes (from 1999 onwards Tamás Sárközy), Kálmán Kulcsár, Károly Manherz, and the secretary of both bodies (currently Margit Balogh).

To perform the daily duties, the two-member National Strategic Research Office was set up within the Institute for Research Organisation of HAS (with Margit Balogh as head of office and Edit Győri as executive secretary).

The results of these programmes have appeared in:

A series of books titled *Magyarország az ezredfordulón. Stratégiai kutatások a Magyar Tudományos Akadémián* (Hungary at the Turn of the Millennium. Strategic Researches at the Hungarian Academy of Sciences);

*Ezredforduló* (Turn of the Millennium), a periodical appearing as a supplement to the journals *História* (History), *Köznevelés* (Public Education), *Természet Világa* (The World of Nature), and *Technika* (Technology);

*Műhelytanulmányok* (Workshop Studies, a series including studies produced as part of the individual programmes).

## A SUMMARISED REVIEW OF THE MAIN OBJECTIVES OF INDIVIDUAL STRATEGIC RESEARCH PROGRAMMES

### I. CHANGE OF REGIME: MARKET ECONOMY, SOCIETY, POLITICAL INSTITUTIONS

(Project leaders: ISTVÁN GYÖRGY TÓTH, IVÁN VITÁNYI,  
and KÁLMÁN KULCSÁR)

The analyses aim to offer an overview of the process of the political transformation and its effects, both direct and indirect, on social structure, including changes in the way of life, lifestyle, culture and consciousness, as well as changes in social structure and in the political system. The studies also seek to show the expected tendencies and alternative solutions in the long run. The actual and expected effects of the Euro-Atlantic integration process on society are also analysed. Researches are going on under three independent, though closely related subprogrammes (projects): 1) Social structure in the

period of market transition; 2) Changes in the way of life, lifestyle, culture and consciousness; 3) Social changes and the political system.

## 2. THE PRESENT STATE AND FUTURE VISION OF THE AGRICULTURAL SECTOR IN HUNGARY

(Project leaders: FERENC KOVÁCS  
and ISTVÁN LÁNG)

This programme aims to end the crisis in agricultural production and to prepare studies that would help the agricultural sector respond to the challenges offered by the world market and EU accession; to contribute to the increase of production and to improving the quality of produces, to ensuring the health safety of foodstuffs with due attention to the protection of the environment; to explore the factors which can increase the efficiency and competitiveness of the sector; to revise the structure of agricultural production; to analyse theoretical problems related to quality. Researches are going on under two independent but closely related subprogrammes (projects): 1) The scientific foundation of agricultural production; 2) Quality dimensions in agriculture.

## 3. ENVIRONMENTAL PROTECTION AND INTEGRATION. BASIC PRINCIPLES TO HELP NEGOTIATIONS CONCERNING EU ACCESSION

(Programme leader: SÁNDOR KERÉKES)

This programme is practically connected partly with the Strategic Work Group for Integration and partly with investigations conducted by the Hungarian Academy of Sciences and the Ministry of Environmental Protection. Its primary aim is to lay a sound foundation based on scientific data for negotiations on environmental issues connected with Hungary's EU accession. In addition, the effects of the harmonisation of pollution regulations on the economic structure and its regional and territorial consequences are also examined. (For further detail see home page: [www.mek.iif.hu](http://www.mek.iif.hu))

## 4. THE PROCESS OF REGIONAL AND URBAN DEVELOPMENT IN HUNGARY

(Programme director: GYÖRGY ENYEDI, GYULA  
HORVÁTH, BÁLINT CSATÁRI)

The programme is composed of three subprogrammes. The first is titled "General investigation of regional development," the second "Possibilities for the development of the Danubian region," and the third "New territories of the Hungarian Plain, settlement and social processes."

### *General investigation of regional development*

This programme aims to examine the mechanism and structure of the socio-economic processes determining Hungary's regional development and settlement system, and to prognosticate their spontaneous directions. The theoretical and empirical researches carried out up to now have made possible the formulation of a few hypotheses. Their testing in practice and the elaboration of alternatives are also included in the programme.

### *Possibilities for the development of the Danubian region*

(Programme director: GYULA HORVÁTH)

This programme aims to investigate the developmental tendencies and directions in the West-, Central- and East-European regions of the Danubian macroregion with due consideration given to the general European and Hungarian trend in regional development; to summarise related concepts; to study the internal endowments of the Danubian regions in Hungary and the conditions necessary for developing an "innovation axis"; to lay the foundations for a Hungarian stand-point to be represented in European co-operation; to establish the strategic viewpoints to be observed in such negotiations.

### *New territories of the Hungarian Plain, settlement, and social processes*

(Programme director: BÁLINT CSATÁRI)

One of the main objectives of the investigations concerning the Hungarian Plain is to renew the Hungarian Plain Research Programme conducted between 1991 and 1994, and to evaluate and revise the results achieved under the programme. Another is to start a new line of research, the results of which may cast light upon the new territorial, economic and social processes through which the development of the macroregion may be made more effective and harmonious, and may also



improve the adaptability of the settlements, regions and communities. (For further detail see home page: www.rkk.hu)

#### 5. FACTORS OF THE QUALITY OF LIFE IN HUNGARY

(Programme director: E. SZILVESZTER VÍZI)

This programme attempts to examine and analyse the underlying causes of the present crisis in the health-care system in Hungary, as well as other circumstances affecting the quality of life of the population. Research results achieved under this programme are expected to contribute to the formulation of an urgently needed national strategy which would be followed through several parliamentary cycles and would rely on proper information and education of the population. The ultimate goal is to reverse the current tendencies which are in sharp contrast with those prevailing in Western Europe.

#### 6. TRANSPORTATION AND ITS TECHNOLOGICAL INFRASTRUCTURE

(Programme director: PÁL MICHELBERGER)

In order that Hungary become a “gate” between the EU and Eastern Europe, it has to work out its particular tasks in the relevant fields of technology, economy, informatics, logistics, law and finances. It depends on the performance of these tasks whether or not Hungary will become a suitable partner, then a member of EU. A sound schedule of these tasks must also be prepared. To achieve all this, the programme is designed to examine and analyse the country’s transportation system with all its implications and with its international connections.

#### 7. NATIONAL CULTURE IN THE AGE OF INFORMATICS

This programme consists of four subprogrammes:

##### *The present and future of the Hungarian language*

(Programme director: ZSIGMOND RITOÓK, in 2000:  
GÉZA BALÁZS)

The strategic aims of this programme are: to cast light upon the present state of the Hungarian language; to survey the tendencies prevailing in current usage; to

study the existing and expected linguistic and social psychological problems that the “electronic revolution” and globalisation involve; to analyse the position of Hungarian as a minor language in view of the excessive spread of the world languages, especially English, in various walks of life.

##### *The image formed about Hungary and Hungarians at the turn of the millennium*

(Programme director: ELEMÉR HANKISS,  
in 2000: ATTILA PÓK)

The objective of this programme is to examine the problems of how the self-image and the external image of Hungarians could be changed and made more positive. The self-image of the nation and society was rather negative over the past decades; the nation’s self-esteem is low, its vision of the future reflects gloom and uncertainty. Both Hungary and its citizens tend to project a self-image that is much worse than the real situation and performance would justify. This programme deals only superficially with the historical, political, social and cultural reasons underlying the development of the given – negative – situation. Instead, it concentrates on the tasks and possible ways of altering this attitude.

##### *Minority conflicts, and an alternative for their settlement in East-Central Europe*

(Programme director: ZOLTÁN SZÁSZ)

Under its Minority Studies Programme, the Hungarian Academy of Sciences is conducting investigations concerning Hungarian minorities in neighbouring countries, ethnic minorities in Hungary and Roma (Gypsy) minorities in East-Central European countries. As part of this programme, a total of ten projects were organised and sponsored in 1998 by social science research institutes in Hungary and the neighbouring countries. In addition, the programme includes the organisation of lectures on and discussions of the emerging problems to assist young researchers, as well as the publication of a series of research reports.

*Hungarian science abroad (A programme of the Presidential Committee of the Hungarian Academy of Sciences)*

(Programme director: DÉNES BERÉNYI)

This programme aims to formulate a strategy for Hungarian scientific activities in foreign countries. This includes the clarification of the notion of Hungarian science abroad, as well as the establishment of the closest connections and co-operation possible with Hungarian scientists and scientific workshops outside Hungary. Furthermore, the programme also extends to operating an institutional and scholarship system (*Domus Hungarica*) enabling Hungarian scientists living abroad to take up residence and work in Hungary.

8. WATER MANAGEMENT IN HUNGARY:  
PRESENT SITUATION AND FUTURE PROSPECTS

(Programme director: LÁSZLÓ SOMLYÓDY)

The main objective of this research programme is to provide a scientifically based strategic background for water management. The prognoses for the forthcoming decades deal with (I) the changing relationship between water and society, (II) new approaches related to the concept of sustainable development, (III) the impact of global climatic and economical changes and (IV) the consequences of EU-integration. These general aspects together with the special Hungarian circumstances (the high ratio of surface water resources that originates from abroad, the importance of the vulnerable subsurface water resources in the drinking water supply, the considerable lag in water infrastructure, large – often artificially modified – lowland catchment areas, high risk of floods, simultaneous demand for handling irrigation and drainage issues) are the starting points for analysing various scenarios and identifying the basic elements of future strategies. The latter may serve as the basis for formulating a new policy of water management for the coming few years and for identifying research needs. (For further detail see home page: [www.vcst.bme.hu/cimlap1.htm](http://www.vcst.bme.hu/cimlap1.htm))

9. HUNGARIAN ECOLOGICAL RESEARCHES FOR AN EAST-CENTRAL-EUROPEAN SCIENTIFIC NETWORK

(Programme director: ATTILA BORHIDI)

The aim of this programme is to contribute to and join ongoing international integrated programmes in the following areas: formation of an East-Central-European research network, development of its scientific background and means. Long-term experimental ecological model-studies aimed at nature conservation and environmental protection on ecological field-sites (ILTER-Project). Ecological studies on environmental changes in wetland-areas (Ramsar-Agreement). Studies on biotope, community and production changes provoked by the global climatic change (IGBP GCTE- Core Project). Ecophysiological and ecotoxicological studies on economically important plants and animals (EU-GCTE, ESPACE, ECOCRAFT Projects). Research on and the protection of microbiological biodiversity. Research on the sustainable use of biological communities in agricultural and forest ecosystems (Sustainable Development Project, COST- E4 Project). Long-term research in strategically important and highly endangered areas (Budapest Agglomeration). Studies on ecological changes of hydro-biotopes in the valley-systems of the Danube and Tisza rivers, monitoring and studies of ecological changes of lakes and standing waters (Alföld [Great Hungarian Plain] project, International Danube- Project, OECD-qualification Project). Landscape-ecological studies and mapping in the Hungarian Plains (Alföld- Project). Gene-conservation, genebank-treatment and population biological studies on protected and endangered species (IUCN- Project). Study of processes in secondary successions with special emphasis on changes in abandoned areas after cultivation and their rehabilitation (NO-LIMITS- Project).

10. EARTH SCIENCE RESEARCHES TO EXPLORE  
AND PROTECT HUNGARY'S ENVIRONMENT

(Programme director: ERNŐ MÉSZÁROS,  
in 2000: FERENC SCHWEITZER)

Under this programme researches have been started in three main fields:

(1) Waste disposal (assessment and forecasting of potential natural dangers and the relieving of their

effects; waste materials and recipient rocks, survey of factors improving or deteriorating storage capacity)

(2) Processes of material flow; natural and anthropogenic effects (circulation of water in the environment; problems of water supply and protection of water resources in Hungary; circulation of gases involving the hothouse effect and aerosolic particles; cycle of bio-essential and unwholesome elements and their concentration in various geospheres; connections among the lithosphere, biosphere and atmosphere).

(3) Investigation of risk factors involved in terrestrial processes (a more precise spotting of seismogenic zones in Hungary; forecasting potential earthquakes, landslides; geological and geophysical evaluations of flood-prevention works).

Researchers take stock of the arsenal of methodological tools and instruments at their disposal in investigating the natural environment, and determine the most important domestic tasks in which these can be put to use.

## 11. INFORMATION SOCIETY AND THE LEGAL SYSTEM

(Programme director: TAMÁS SÁRKÖZY)

This programme aims to analyse the legal aspects of the so-called information revolution with a special view to the following three topics:

(a) The development of mass communication gave rise to new, mass communication-specific branches of law which contain the elements of both public law and private law.

(b) The new demands on law that information society has raised (this forms the backbone of investigations under this programme).

(c) An examination of how the technical infrastructure of legislation and legal practice will change under the new circumstances.

# THE ACADEMY'S NETWORK OF RESEARCH INSTITUTES

In order to perform its tasks as defined by Act XL of 1994, the Academy maintains research institutes (centres, groups, laboratories) engaged in basic and/or applied research, and in some cases in experimental research and development as well. It also supports special research groups affiliated with higher educational institutions (mainly universities). The number of research institutes is 49, and that of university-affiliated research groups is 139.

## INSTITUTES FOR NATURAL SCIENCES

### AGRICULTURAL RESEARCH INSTITUTE

Address: H-2462 Martonvásár, Brunszvik tér 2  
Mail: H-2462 Martonvásár, P.O.Box 19  
Phone: (36-22) 569-500  
Fax: (36-22) 460-213  
Internet: [www.mgki.hu](http://www.mgki.hu)  
E-mail: [bedoz@buza.mgki.hu](mailto:bedoz@buza.mgki.hu)  
Director: ZOLTÁN BEDŐ D.Sc.

Main fields of research: Genetic research, cell biological and physiological research on plants, maize breeding research, maize agronomy research, cereal breeding research, resistance breeding on cereals. Further R&D activities include the development of new varieties satisfying practical requirements, cereal gene bank research, studies on the effects of global climatic changes on cultivated crops, investigation of sustainable crop production systems and the application of new methods in the breeding of plants resistant to abiotic and biotic stress factors.

### ASTRONOMICAL INSTITUTE (KONKOLY OBSERVATORY)

Address: H-1121 Budapest, Konkoly Thege út 15-17  
Mail: H-1525 Budapest, P.O.Box 67  
Phone: (36-1) 375-4122  
Fax: (36-1) 275-4668  
Internet: [www.konkoly.hu](http://www.konkoly.hu)  
E-mail: [balazs@ogyalla.konkoly.hu](mailto:balazs@ogyalla.konkoly.hu)  
Director: LAJOS G. BALÁZS, C.Sc.

Main fields of research: Observational astronomical studies, mainly related to the physics of variable stars, galactic structure, solar and stellar activities, and the terrestrial upper structure.

### BALATON LIMNOLOGICAL RESEARCH INSTITUTE

Address: H-8237 Tihany, Klebelsberg Kuno u. 1/3  
Mail: H-8237 Tihany, P.O.Box 35  
Phone: (36-87) 448-244  
Fax: (36-87) 448-006  
Internet: <http://tres.blki.hu>  
E-mail: [herodek@tres.blki.hu](mailto:herodek@tres.blki.hu)  
Director: SÁNDOR HERODEK, D.Sc.

Main fields of research: Hydrobiology, in particular, the determination of the role of various factors in lake eutrophication and the optimum strategy for the reversal of this process. Research aims include the monitoring of the biological diversity of Lake Balaton, the clarification of interactions in aquatic ecosystems, and proposals for the conservation of biodiversity; experimental zoology, in particular, the study of the comparative neurobiology of signal molecules and their reception in the central and peripheral nervous systems of model invertebrates, the physiological and membrane effects of anthropogenic pollutants and blue-green algae toxins

on aquatic animals, and the monitoring of the toxic pollution of living organisms of Lake Balaton and its catchment area.

BIOLOGICAL RESEARCH CENTRE (BRC)

Address: H-6726 Szeged, Temesvári krt. 62  
 Mail: H-6701 Szeged, P.O.Box 521  
 Phone: (36-62) 432-232  
 Fax: (36-62) 432-576  
 Internet: www.szbk.u-szeged.hu  
 E-mail: dudits@nucleus.szbk.u-szeged.hu  
 Director: DÉNES DUDITS, O.M.

Main fields of research: Basic research in biophysics, biochemistry, enzymology, and plant biology. Research on molecular and cellular levels. Practical applicability of the results obtained in basic research in agriculture, in the pharmaceutical, food and chemical industries and in medicine. The Institute takes part in graduate training, higher education by mail, the methodological training of young scientists and in the work of the International Training Course, works in close co-operation with related institutes of the Academy, universities, and other Hungarian and foreign research institutions. Centre of Excellence by EU qualification.

BRC INSTITUTE OF BIOCHEMISTRY

Address: H-6726 Szeged, Temesvári krt. 62  
 Mail: H-6701 Szeged, P.O.Box 521  
 Phone: (36-62) 433-506  
 Fax: (36-62) 433-506  
 Internet: www.szbk.u-szeged.hu  
 E-mail: vigh@nucleus.szbk.u-szeged.hu  
 Director: LÁSZLÓ VÍGH, D.Sc.

Main fields of research: Basic research using various modern methods applicable in natural sciences, studies on nucleic acids, proteins and lipids and their complexes on different organisational levels. Studies are aimed at a better understanding of the chemical and physico-chemical nature of living matter, its changes, the regulation processes taking place in living matter and the laws governing life phenomena.

BRC INSTITUTE OF BIOPHYSICS

Address: H-6726 Szeged, Temesvári krt. 62  
 Mail: H-6701 Szeged, P.O.Box 521  
 Phone: (36-62) 433-465  
 Fax: (36-62) 433-133  
 Internet: www.nucleus.szbk.u-szeged.hu  
 E-mail: pali@nucleus.szbk.u-szeged.hu  
 Director: PÁL ORMOS, C.M.

Main fields of research: Basic research in the fields of bioenergetics, membrane physics and neurobiology using modern physical, chemical and biological methods. Research in the self-organisation ability of matter, and studies on the regulation processes in living matter primarily by physical methods.

BRC INSTITUTE OF ENZYMOLOGY

Address: H-1113 Budapest, Karolina út 29/31  
 Mail: H-1518 Budapest, P.O.Box 7  
 Phone: (36-1) 466-5633  
 Fax: (36-1) 466-5465  
 Internet: www.enzim.hu  
 E-mail: friedric@enzim.hu  
 Director: PÉTER FRIEDRICH, O.M.

Main fields of research: Basic research to elucidate the role of enzymes and other proteins in biological processes; the regulation of these processes on molecular level; studies on proteins and polypeptides; the improvement of experimental methods and the development of a theoretical basis.

BRC INSTITUTE OF GENETICS

Address: H-6726 Szeged, Temesvári krt. 62  
 Mail: H-6701 Szeged, P.O.Box 521  
 Phone: (36-62) 432-232/231  
 Fax: (36-62) 433-503  
 Internet: www.szbk.u-szeged.hu  
 E-mail: rasko@nucleus.szbk.u-szeged.hu  
 Director: ISTVÁN RASKÓ, D.Sc.

Main fields of research: Basic research on the mechanism of heredity and on the processes regulating and influencing the manifestation of hereditary traits on molecular and various other organisational levels.

## BRC INSTITUTE OF PLANT BIOLOGY

Address: H-6726 Szeged, Temesvári krt. 62  
 Mail: H-6701 Szeged, P.O.Box 521  
 Phone: (36-62) 432-232/169  
 Fax: (36-62) 433-434  
 Internet: [www.szbk.u-szeged.hu](http://www.szbk.u-szeged.hu)  
 E-mail: [imre@nucleus.szbk.u-szeged.hu](mailto:imre@nucleus.szbk.u-szeged.hu)  
 Director: IMRE VASS, D.Sc.

Main fields of research: Investigation of the basic molecular and cellular events in plant functions such as photosynthesis, environmental adaptation, recovery from damages, growth and development. The complex approaches are based on the methodology of physics, molecular and cell biology.

## CHEMICAL RESEARCH CENTRE (CRC)

Address: H-1025 Budapest, Pusztaszeri út 59/67  
 Mail: 1525 Budapest, P.O.Box 17  
 Phone: (36-1) 325-7900  
 Fax: (36-1) 325-7554  
 E-mail: [palg@chemres.hu](mailto:palg@chemres.hu)  
 Director: GÁBOR PÁLINKÁS, C.M.

CRC incorporates the Central Research Institute for Chemistry, the Isotope Research Institute, and the Research Laboratory of Materials and Environmental Chemistry.

## CRC INSTITUTE OF CHEMISTRY

Address: H-1025 Budapest, Pusztaszeri út 59/67  
 Mail: 1525 Budapest, P.O.Box 17  
 Phone: (36-1) 325-7900  
 Fax: (36-1) 325-7554  
 Internet: [www.chemres.hu](http://www.chemres.hu)  
 E-mail: [palg@chemres.hu](mailto:palg@chemres.hu)  
 Director: GÁBOR PÁLINKÁS, C.M.

Main fields of research: Organic and bioorganic chemistry, surface reactions and heterogeneous catalysis, kinetics and mechanism of chemical reactions, electrochemistry and corrosion, polymer chemistry and physics, environmental and analytical chemistry, material and molecular structure.

CRC INSTITUTE  
OF ISOTOPE AND SURFACE CHEMISTRY

Address: H-1121 Budapest, Konkoly Thege M. út 29/33  
 Mail: H-1525 Budapest, P.O.Box 77  
 Phone: (36-1) 392-2531  
 Fax: (36-1) 392-2533  
 Internet: [www.iki.kfki.hu](http://www.iki.kfki.hu)  
 E-mail: [wojn@alpha0.iki.kfki.hu](mailto:wojn@alpha0.iki.kfki.hu)  
 Director: LÁSZLÓ WOJNÁROVITS, D.Sc.

Main fields of research: Nuclear chemistry, including research in nuclear physics, nuclear elements analysis, nuclear safety and radiation protection, radiation chemistry, radiation physics and radiochemistry; surface reactions and heterogeneous catalysis, including preparation of model systems and their surface properties, study of the interaction of the surface with substrates, heterogeneous catalytic reactions.

CRC RESEARCH LABORATORY OF MATERIALS AND  
ENVIRONMENTAL CHEMISTRY

Address: H-1025 Budapest, Pusztaszeri út 59/67  
 Mail: H-1525 Budapest, P.O.Box 17  
 Phone: (36-1) 325-7896  
 Fax: (36-1) 325-7892  
 Internet: [www.chemres.hu/akkl](http://www.chemres.hu/akkl)  
 E-mail: [szepvol@chemres.hu](mailto:szepvol@chemres.hu)  
 Director: JÁNOS SZÉPVÖLGYI, C.Sc.

Main fields of research: Materials chemistry, electrochemistry and corrosion, environmental and analytical chemistry.

COMPUTER AND AUTOMATION  
RESEARCH INSTITUTE

Address: H-1111 Budapest, Kende u. 13/17  
 Mail: H-1518 Budapest, P.O.Box 63  
 Phone: (36-1) 209-5400  
 Fax: (36-1) 466-7503  
 Internet: [www.sztaki.hu](http://www.sztaki.hu)  
 E-mail: peter.  
 Director: PÉTER INZELT, C.Sc.

Main fields of research: Computer science and technology, applied mathematics, automated control systems,



artificial intelligence, analogical and neural computing, integrated design and control systems. Other activities include graduate and mailgraduate training.

INSTITUTE OF ECOLOGY AND BOTANY

Address: H-2163 Vácrátót, Alkotmány u. 2/4  
 Phone: (36-28) 360-122  
 Fax: (36-28) 360-110  
 Internet: [www.botanika.hu](http://www.botanika.hu)  
 E-mail: [borhidi@botanika.hu](mailto:borhidi@botanika.hu)  
 Director: ATTILA BORHIDI, O.M.

Main fields of research: Theoretical, basic and applied research in certain fields of ecology, botany and hydrobiology, such as organisation and dynamics of terrestrial plant communities and populations; hydrological research in streams and lakes; conservation biology; basic research for the protection of nature; new plant resources and their utilisation. The Institute is also in charge of the Vácrátót Botanical Gardens and acts as the Ecological Centre of four other research institutes of the Hungarian Academy of Sciences engaged in long-term ecological researches.

INSTITUTE OF EXPERIMENTAL MEDICINE

Address: H-1083 Budapest, Szigony u. 43  
 Mail: H-1450 Budapest, P.O.Box 67  
 Phone: (36-1) 210-9400  
 Fax: (36-1) 210-9423  
 Internet: [www.koki.hu](http://www.koki.hu)  
 E-mail: [esvizi@koki.hu](mailto:esvizi@koki.hu)  
 Director: E. SZILVESZTER VIZI, O.M.

Main fields of research: Basic biomedical research focused primarily on brain research, including studies on neurotransmission (using neuroanatomical, electrophysiological, neurochemical and pharmacological methods), on behaviour, epileptic and ischaemic brain damage and on the central and peripheral control of hormone secretion. Research teams use multidisciplinary approaches, combining traditional, well-established methods with the new technologies of cellular and molecular biology.

INSTITUTE OF NUCLEAR RESEARCH

Address: H-4026 Debrecen, Bem tér 18/C  
 Mail: H-4001 Debrecen, P.O.Box 51  
 Phone: (36-52) 417-266  
 Fax: (36-52) 413-181  
 Internet: [www.atomki.hu](http://www.atomki.hu)  
 E-mail: [rgl@atomki.hu](mailto:rgl@atomki.hu)  
 Director: REZSŐ LOVAS, D.Sc.

Main fields of research: Basic research in atomic and subatomic (nuclear and particle) physics; application of atomic and nuclear physics in other fields (applying X-ray, electron and mass spectroscopy in chemical analysis, surface science, low-temperature physics, earth science, environmental, medical and biological research, etc.); solving related practical problems; development of techniques and instruments for these fields; participation in higher education.

KFKI ATOMIC ENERGY RESEARCH INSTITUTE

Address: H-1121 Budapest, Konkoly Thege u. 29/33  
 Mail: H-1525 Budapest 114., P.O.Box 49  
 Phone: (36-1) 395-9159  
 Fax: (36-1) 395-9293  
 Internet: [www.kfki.hu/~aekihp/](http://www.kfki.hu/~aekihp/)  
 E-mail: [gado@sunserv.kfki.hu](mailto:gado@sunserv.kfki.hu)  
 Director: JÁNOS GADÓ, D.Sc.

Main fields of research: Reactor physics; thermo-hydraulics; fuel studies; examination of serious accident processes; development of control systems for atomic energy power plants; reactor simulation, materials research activation analysis; neutron radiography; radiation protection; investigation of condensed materials.

KFKI RESEARCH INSTITUTE FOR PARTICLE AND NUCLEAR PHYSICS

Address: H-1121 Budapest, Konkoly Thege u. 29/33  
 Mail: H-1525 Budapest 114., P.O.Box 49  
 Phone: (36-1) 395-9289  
 Fax: (36-1) 395-9151  
 Internet: [www.rmki.kfki.hu](http://www.rmki.kfki.hu)  
 E-mail: [szego@rmki.kfki.hu](mailto:szego@rmki.kfki.hu)  
 Director: KÁROLY SZEGŐ, D.Sc.

Main fields of research: Basic research in high-energy nuclear and particle physics, plasma physics, space physics, theoretical investigations; applied research and development in the field of laser techniques, nuclear analysis, space electronics, fast data processing, and optical and X-ray spectroscopy.

PLANT PROTECTION INSTITUTE

Address: H-1022 Budapest, Herman Ottó út 15  
 Mail: H-1525 Budapest, P.O.Box 102  
 Phone: (36-1) 355-8722  
 Fax: (36-1) 356-3698  
 Internet: www.nki.hu  
 E-mail: tkom@nki.hu  
 Director: TAMÁS KÓMÍVES, D.Sc.

Main fields of research: Basic research in the fields of plant patho-physiology, physiological and molecular aspects of plant disease resistance, biotechnology, taxonomy of insects, insect physiology, insect ecology and ecotoxicology, chemical aspects of pest control.

Research teams are also involved in applied research and innovation projects as well as in teaching in graduate schools.

“RÉNYI ALFRÉD” MATHEMATICAL INSTITUTE

Address: H-1053 Budapest, Reáltanoda u. 13/15  
 Mail: H-1364 Budapest, P.O.Box 127  
 Phone: (36-1) 483-8300  
 Fax: (36-1) 483-8333  
 Internet: www.renyi.hu  
 E-mail: ohkatona@renyi.hu  
 Director: GYULA KATONA, O.M.

Main fields of research: Algebra, algebraic logic, approximation theory, differential equations, functional analysis, combinatorics, theoretical computing, cryptography, information theory, probability theory, mathematical statistics, number theory, geometry.

RESEARCH CENTRE  
 FOR EARTH SCIENCES (RCES)

Address: H-1112 Budapest, Budaörsi út 45  
 Mail: H-1502 Budapest, P.O.Box 132  
 Phone: (36-1) 319-3119

Fax: (36-1) 319-3145  
 E-mail: panto@sparc.core.hu  
 General Director: GYÖRGY PANTÓ, O.M.

RCES GEODETICAL  
 AND GEOPHYSICAL RESEARCH INSTITUTE

Address: H-9400 Sopron, Csatkai E. u. 6/8  
 Mail: H-9401 Sopron, P.O.Box 5  
 Phone: (36-99) 508-340  
 Fax: (36-99) 508-355  
 Internet: www.ggki.hu  
 E-mail: zavoti@ggki.hu  
 Director: JÓZSEF ZÁVOTI, C.Sc.

Main fields of research: Geodynamics; GPS; gravitation modelling; linear and non-linear geodetical problems; DIN and GIS; development of geodetic and geophysical methods and instruments and their standardisation; magnetosphere; ionosphere; the Schuman resonance, Sun-Earth physical relations; geomagnetic pulsations; space meteorology, electromagnetic investigation of the Carpathian-Pannonian region; seismology of deep layers; earthquake risks. The Institute has a database of earthquakes.

RCES GEOGRAPHICAL RESEARCH INSTITUTE

Address: H-1112 Budapest, Budaörsi út 45  
 Mail: H-1388 Budapest, P.O.Box 64  
 Phone: (36-1) 309-2628  
 Fax: (36-1) 309-2690  
 Internet: www.miwo.hu/partner/mtafki/  
 E-mail: schweidf@helka.iif.hu  
 Director: FERENC SCHWEITZER, D.Sc.

Main fields of research: Geomorphological and natural geographical investigations underlying the safe storing of materials of low and medium radiation; complex geomorphological investigation of surface development of the Hungarian Danube Valley; exploration of the palaeogeographic relations of the Carpathian Basin; development of Integrated Space Informatics Systems and their applications to sample areas; development of models for forecasting soil erosion and surface development; socio-geographic study of the Carpathian Basin; comparative geographical investigation of urban development in Central Europe; examination of the changes

in the spatial structure of Hungarian industry; socio-geographic investigation of the metropolitan living-space (Lebensraum).

RCES LABORATORY  
FOR GEOCHEMICAL RESEARCH

Address: H-1112 Budapest, Budaörsi út 45  
Mail: H-1502 Budapest, P.O.Box 132  
Phone/Fax: (36-1) 319-3137  
Internet: [www.core.hu/geochem/index.htm](http://www.core.hu/geochem/index.htm)  
E-mail: [arkai@sparc.core.hu](mailto:arkai@sparc.core.hu)  
Director: PÉTER ÁRKAI, C.M.

Main fields of research: Mineralogy and geochemistry of rare earth metals; development of the taxonomy and methodology of low temperature metamorphism; investigation of the formation of magmatic rocks and the related formation of raw materials; complex coal-mineralogical and coal-geochemical investigations of Hungarian brown coals; geochemistry; investigation of bioessential trace elements; isotope-geochemical examination of drinking water and thermal spring bases.

RESEARCH INSTITUTE FOR SOIL SCIENCE  
AND AGRICULTURAL CHEMISTRY

Address: H-1022 Budapest, Herman O. u. 15  
Mail: H-1525 Budapest, P.O.Box 35  
Phone: (36-1) 356-4644  
Fax: (36-1) 356-4682  
Internet: [www.taki.iif.hu](http://www.taki.iif.hu)  
E-mail: [nemeth@rissac.hu](mailto:nemeth@rissac.hu)  
Director: TAMÁS NÉMETH, C.M.

Main fields of research: Basic research in soil science, agrochemistry and soil biology. The Institute's activities in these fields also include significant applied research and experimental development, graduate training by mail, advisory and information activities, as well as extensive national and international co-operation. The Institute co-operates in several national and international programmes (e.g., Inco-Copernicus, NATO SP, EU Fifth Framework Programme, PHARE, etc.).

RESEARCH INSTITUTE FOR SOLID-STATE PHYSICS  
AND OPTICS

Address: H-1121 Budapest, Konkoly-Thege M. u. 29/33  
Mail: H-1525 Budapest, P.O.Box 49  
Phone: (36-1) 392-2212  
Fax: (36-1) 392-2215  
Internet: [www.szfki.hu](http://www.szfki.hu)  
E-mail: [szfki@szfki.hu](mailto:szfki@szfki.hu)  
Director: JÁNOS KOLLÁR, D.Sc.

Main fields of research: Basic research in the field of theoretical and experimental solid-state physics, including the physics of condensed materials, metals, thin films and surfaces, and also in the field of theoretical and experimental optics, including the physics of optical crystals, nonlinear and quantum optics, as well as laser physics; applied research, including the development, study and applications of specific new materials, new test methods, new optical crystals, thin-film devices and lasers; development of unique research methods (neutron scattering, neutron and gamma-radiography, NMR, X-ray diffraction, Mössbauer-spectroscopy, ultra-short laser pulses).

RESEARCH INSTITUTE FOR TECHNICAL PHYSICS  
AND MATERIAL SCIENCE

Address: H-1121 Budapest, Konkoly Thege út 29/33  
Mail: H-1525 Budapest 114, P.O. Box 49  
Phone: (36-1) 392-2225  
Fax: (36-1) 392-9226  
Internet: [www.kfki.hu/mfahp](http://www.kfki.hu/mfahp)  
E-mail: [gyulai@mfa.kfki.hu](mailto:gyulai@mfa.kfki.hu)  
Director: JÓZSEF GYULAI, O.M.

Main fields of research: Basic research in the field of semiconductors, metals, including magnetic materials; applied research in sensing devices (semiconductor, magnetic and optical type), and in ceramics. Other fields of activity include special computer programmes and training on both undergraduate and graduate levels.

VETERINARY MEDICAL RESEARCH INSTITUTE

Address: H-1143 Budapest, Hungária krt. 21  
 Mail: H-1581 Budapest, P.O.Box 18  
 Phone: (36-1) 252-2455  
 Fax: (36-1) 252-1069  
 Internet: www.vmri.hu  
 E-mail: harrach@novell.vmri.hu  
 Director: BALÁZS HARRACH, C.Sc.

Main fields of research include the investigation of the viral, bacterial and parasitic diseases of farm animals, and molecular biological research in these areas. In basic research particular attention is given to molecular and genetic aspects. Researches are conducted under virology, bacteriology and mycoplasma, and fish parasitology projects. The Institute is also engaged in Mailgraduate and graduate training.

INSTITUTES FOR SOCIAL SCIENCES AND THE HUMANITIES

ARCHAEOLOGICAL INSTITUTE

Address: H-1014 Budapest, Úri u. 49  
 Mail: H-1250 Budapest, P.O.Box 14  
 Phone: (36-1) 375-9011  
 Fax: (36-1) 356-4567  
 Internet: www.archeo.mta.hu  
 E-mail: balint@archo.mta.hu  
 Director: CSANÁD BÁLINT, C.M.

Main fields of research: Archaeological research and related natural science research from the Neolithic to the late Mediaeval Period, within this, the main research topics include the archaeological topography of Hungary; archaeological investigations in the Roman Empire and its provinces, the Avars, the Magyars and their neighbours; mediaeval researches; microregional research programmes including settlement research.

CENTRE FOR REGIONAL STUDIES (CRS)

Address: H-7621 Pécs, Papnövelde u. 22  
 Mail: H-7601 Pécs, P.O.Box 199

Phone: (36-72) 210-390  
 Fax: (36-72) 233-704  
 Internet: www.rkk.hu  
 E-mail: horvath@dti.rkk.hu  
 Director: GYULA HORVÁTH, D.Sc.

As the central institution of four research institutes, the Centre for Regional Studies (CRS) is responsible for complex social science researches with regional relevance, specifically, research on long-term Hungarian and international processes of regional and urban development, the globalising (European, Euro-regional, East-Central-European, Hungarian) spatial structures, their division of labour, their system of institution and tools; decisions concerning regional development in Hungary and the country's accession to the European Union. The Centre's research units are listed below.

CRS WEST-HUNGARIAN RESEARCH INSTITUTE

Address: H-9002 Győr, Liszt Ferenc u. 10  
 Mail: H-9002 Győr, P.O.Box 420  
 Phone: (36-96) 516-570  
 Fax: (36-96) 516-579  
 Internet: www.rkk.hu  
 E-mail: rechn@edo.rkk.hu  
 Director: JÁNOS RECHNITZER, D.Sc.

Main fields of research: Survey of the spatial spreading of innovation; analysis of regional financial and income processes; study of the Vienna-Bratislava-Gyor regional co-operation; comparative analysis of success regions and cities; regional development concept and strategy for Northern Transdanubia.

CRS TRANSDANUBIAN RESEARCH INSTITUTE

Address: H-7621 Pécs, Papnövelde u. 22  
 Mail: H-7601 Pécs, P.O.Box 199  
 Phone: (36-72) 212-755  
 Fax: (36-72) 233-704  
 E-mail: palne@dti.rkk.hu  
 Director: PÁLNÉ ILONA KOVÁCS, D.Sc.

Main fields of research: Survey of Hungarian and international regionalism, regional development and policy in Europe; the institutional system of public adminis-

tration and regional development; methodology of regional development programming; regional requirements of sustainable development; complex survey of infrastructural systems and networks; regional development strategy for Southern Transdanubia; analysis of the development of the Alpine-Adriatic region.

CRS GREAT PLAIN RESEARCH INSTITUTE

Address: H-6000 Kecskemét, Rákóczi u. 3  
 Mail: H-6001 Kecskemét, P.O.Box 261  
 Phone: (36-76) 502-840  
 Fax: (36-76) 502-849  
 Internet: www.rkk.hu/ati  
 E-mail: csatbal@rkk.hu  
 Director: BÁLINT CSATÁRI, C.Sc.

Main fields of research: Study of the economic, societal and environmental renewal of the Great Hungarian Plain; methodology of microregional researches; rural development strategies; development concept and strategy for the Great Hungarian Plain; survey of the Carpathian Euro-region and the Tisza-Maros-Danube co-operation.

CRS CENTRAL AND NORTH  
 HUNGARIAN RESEARCH INSTITUTE

Address: H-1014 Budapest, Úri u. 49  
 Mail: H-1538 Budapest 114, P.O.Box 527  
 Phone: (36-1) 212-9525  
 Fax: (36-1) 212-9526  
 E-mail: h10136bar@ella.hu  
 Director: GYÖRGYI BARTA, C.Sc.

Main fields of research: Study of the regional structure of urban network and of society; analysis of the spatial structure of urban network and urban functions; survey of Budapest and its agglomeration in international comparison; development strategy for Northern Hungary.

CENTRE FOR THE SOCIAL SCIENCES

Address: H-1014 Országház u. 30.  
 Mail: H-1399 Budapest, P.O. Box 694/120  
 Phone: (36-1) 355-7649  
 Fax: (36-1) 356-1539

E-mail: h5942pok@ella.hu  
 Director: ATTILA PÓK C.Sc.

INSTITUTE FOR THE STUDY  
 OF ETHNIC-NATIONAL MINORITIES

Address: H-1014 Budapest, Országház u. 30  
 Mail: H-1399 Budapest, Pf. 694/121  
 Phone: (36-1) 224-6795  
 Phone/Fax: (36-1) 224-6793  
 E-mail: sza859@mail.iif.hu  
 Director: LÁSZLÓ SZARKA, C.Sc.

INSTITUTE OF ART HISTORY

Address: H-1014 Budapest, Úri u. 49  
 Mail: H-1250 Budapest, P.O.Box 27  
 Phone: (36-1) 375-9011, 224-6700, 375-0493  
 Fax: (36-1) 356-1849  
 Internet: www.arthist.mta.hu  
 E-mail: lbeke@arthist.mta.hu  
 Director: LÁSZLÓ BEKE, C.Sc.

Main fields of research: Research on the history, sources and monuments of art in Hungary from the beginnings to date; investigations concerning art theory, methodology and the history of art studies; activity concerning resources of Hungarian art. The Institute is also in charge of the Art Collection of the Hungarian Academy of Sciences.

INSTITUTE OF ECONOMICS

Address: H-1112 Budapest, Budaörsi út 45  
 Mail: H-1502 Budapest, P.O.Box 262  
 Phone: (36-1) 309-2600, 309-2651  
 Fax: (36-1) 319-3136  
 Internet: www.econ.core.hu  
 E-mail: koltay@econ.core.hu  
 Director: JENŐ KOLTAY, C.Sc.

The Institute is committed to international standards of fundamental and applied research in economics, focusing on the analysis of modern market economy and the transition-related issues of Hungarian economy. Main fields of research: Microeconomics and economic policy; public and institutional economics; human resources; microeconomics and sectoral economics; mathe-

matical economics, historical investigations in economic thought, and dissemination of research output.

INSTITUTE OF ETHNOLOGY

Address: H-1014 Budapest, Országház u. 30  
 Mail: H-1250 Budapest, P.O.Box 29  
 Phone: (36-1) 356-6167  
 Fax: (36-1) 375-9764  
 Internet: www.neprajz.mta.hu  
 E-mail: paladi@neprajz.mta.hu  
 Director: ATTILA PALÁDI-KOVÁCS, C.M.

Main fields of research: Systems of folk beliefs and customs; archaic folklore genres; the role of literature in folklore, social anthropology (including comparative researches); tradition, identity and national symbols, historical ethnography; non-European researches (Hungarian ethnogenesis, history and ethnography of Finno-Ugrian peoples, and other ethnological investigations), works on the *Encyclopaedia of Uralic Mythology* and the eight-volume handbook titled *Hungarian Ethnography*.

INSTITUTE OF HISTORY

Address: H-1014 Budapest, Úri u. 51-53.  
 Mail: H-1250 Budapest, P.O.Box 9  
 Phone: (36-1) 355-8084  
 Fax: (36-1) 356-6373  
 Internet: www.tti.hu  
 E-mail: gabi@history.mta.hu  
 Director: ZOLTÁN SZÁSZ, C.Sc.

Main fields of research: The mediaeval Hungarian state; economic and social development in the three parts of Hungary during Turkish occupation in the 16th-17th-centuries; Hungary in the Habsburg Empire; minorities in Hungary and Hungarian minorities in the neighbouring countries; social history of the "age of Kádár" (1956-1989). The Institute also edits and publishes historical sources and manuals.

INSTITUTE OF LEGAL STUDIES

Address: H-1014 Budapest, Országház u. 30  
 Mail: H-1250 Budapest, P.O.Box 25  
 Phone: (36-1) 355-7384  
 Fax: (36-1) 375-7858

E-mail: lamm@jog.mta.hu  
 Director: VANDA LAMM, D.Sc.

Research at the Institute covers a wide range of legal topics, including administrative law, civil law, comparative law, constitutional law, European law, international public and private law, criminal law, legal philosophy of law, environmental law. Main fields of research: European law and the Hungarian legal system; current issues of business law and private law, environmental law; rule of law and the Hungarian legal order; the European system of protection of fundamental and human rights; and the general questions of the theory of the legal system.

INSTITUTE FOR LINGUISTICS

Address: H-1068 Budapest, Benczúr u. 33.  
 Mail: H-1399 Budapest, P.O.Box 701/518  
 Phone: (36-1) 351-0413  
 Fax: (36-1) 322-9297  
 Internet: www.nytud.hu  
 E-mail: kiefer@nytud.hu  
 Director: FERENC KIEFER O.M.

Main fields of research: Synchronic and diachronic development of the Hungarian language; researches in theoretical and applied linguistics. Within this, main research areas include works on the *Historical Grammar of Hungarian*; survey of spoken Hungarian, speech synthesis; speech perception and comprehension; the structural grammar of Hungarian; children's language; neuro-linguistics; works on *The Hungarian Dictionary of Dialect Vocabulary*, *Uralic Etymological Archives*; researches are also conducted in theoretical linguistics.

INSTITUTE OF LITERARY SCHOLARSHIP

Address: H-1118 Budapest, Ménesi út 11/13  
 Phone: (36-1) 385-8790  
 Fax: (36-1) 385-3876  
 Internet: www.iti.mta.hu  
 E-mail: szor@iti.mta.hu, mol@iti.mta.hu  
 Director: LÁSZLÓ SZÖRÉNYI, D.Sc.

Main fields of research: History of Hungarian literature from the beginnings to the present; literary theory; history of literary criticism; Central and East European lit-



erature; textology. The Institute is also engaged in editing reference books and bibliographies, in publishing reviews, critical editions and source studies in Hungarian literature.

INSTITUTE FOR MUSICOLOGY

Address: H-1014 Budapest, Táncsics Mihály u. 7  
 Mail: H-1250 Budapest, P.O.Box 28  
 Phone: (36-1) 356-6858  
 Fax: (36-1) 375-9282  
 Internet: www.zti.hu  
 E-mail: director@zti.hu  
 Director: TIBOR TALLIÁN, C.Sc.

Main fields of research include all areas of Hungarian music history, and various areas of general music history; ethnomusicology and ethnochoreology (Hungarian and European folk music and folk dance). Its other responsibilities include the maintenance and enlargement of primary collections hosted by the Institute such as the Hungarian Folk Music and Folk Dance Archives, the Bartók Archives, and the Museum of Music History.

INSTITUTE OF PHILOSOPHY

Address: H-1054 Budapest, Szemere u. 10  
 Mail: H-1398 Budapest, P.O.Box 594  
 Phone/Fax: (36-1) 312-0243  
 Internet: www.phil-inst.hu  
 E-mail: office@phil-inst.hu, nyiri@elender.hu  
 Director: JÁNOS KRISTÓF NYÍRI, O.M.

Main fields of research: Information society, social philosophy, history of philosophy, philosophy of religion. Researches are also going on under the following special projects: the changing function of European universities, screen pedagogy, trends in global networking and controlling the NET. The Institute also serves as a scientific background for UNIWORLD, a virtual university, based on studies in the history of universities and on the achievements of the Institute's studies on information society.

INSTITUTE FOR POLITICAL SCIENCES

Address: H-1014 Budapest, Országház u. 30  
 Mail: H-1399. P.O. Box 694/115

Phone: (36-1) 375-9011, 224-6700  
 Fax: (36-1) 224-6725  
 Internet: www.mtapti.hu  
 E-mail: bayer@mtapti.hu  
 Director: JÓZSEF BAYER, D.Sc.

Main fields of research: Political theory; political institutions; research in the field of security and defence policies; parties, party systems and the articulation of Hungarian society; elections – electoral behaviour; interrelationships of political and societal group formation; political culture; ethnic and regional structure.

INSTITUTE FOR PSYCHOLOGY

Address: H-1132 Budapest, Victor Hugo u. 18/22  
 Mail: H-1394 Budapest, P.O.Box 398  
 Phone: (36-1) 350-0555  
 Fax: (36-1) 239-6727  
 Internet: www.mtapi.hu  
 E-mail: czigler@cogpsyphy.hu  
 Director: ISTVÁN CZIGLER, D.Sc.

Main fields of research: The study of elementary information processing; analysis of the development of cognitive processes and brain mechanisms underlying the cognitive processes in human and animal experiments; determinants of mental development in the early stages of the socialisation process; the role of psychological processes in effective education; processes underlying the decision processes; cognitive constructs in the control of social behaviour, text comprehension and communication; psychological mediation and representation of social processes.

INSTITUTE OF SOCIOLOGY

Address: H-1014 Budapest, Úri u. 49  
 Mail: H-1250 Budapest, P.O.Box 20  
 Phone: (36-1) 224-6740  
 Fax: (36-1) 224-6741  
 E-mail: h8756tam@ella.hu  
 Director: PÁL TAMÁS, C.Sc.

Main fields of research: Research into the reproduction processes of poverty and deprivation; integration of Roma (Gypsy) groups into Hungarian society; operation of the non-profit sector; reconstruction of the

national innovation system; relationship between environmental protection and society.

INSTITUTE FOR WORLD ECONOMICS

Address: H-1014 Budapest, Országház u. 30

Mail: H-1531 Budapest, P.O.Box 936

Phone: (36-1) 224-6760

Fax: (36-1) 224-6761

Internet: [www.vki.hu](http://www.vki.hu)

E-mail: [ainotai@vki.hu](mailto:ainotai@vki.hu)

Director: ANDRÁS INOTAI, D.Sc.

Main fields of research: The study of trends and factors behind international economic development (including

the role of the United States in the world economy) and their present and future impact on Hungarian economy. Further research priorities include: economic development in Europe, with special attention to the European Union and eastern enlargement; economic transformation in Central and Eastern Europe; comparative analysis of CEFTA countries, new economic developments in Japan, East and Southeast Asia; the experience of Hungarian national programmes of economic modernisation in international comparison; microlevel adjustment and co-operation; the role of infrastructure and services in the modernisation process; the future of national and EU agricultural policies; critical issues of the welfare state; the impact of socio-economic values on the pattern of development; sectoral studies.

# ACADEMY-SUPPORTED RESEARCH GROUPS AFFILIATED WITH UNIVERSITIES AND OTHER INSTITUTIONS

OFFICE OF ACADEMY-SUPPORTED  
RESEARCH GROUPS AFFILIATED WITH UNIVERSITIES  
AND OTHER INSTITUTIONS

H-1051 Budapest, Nádor u. 7  
Post: 1245 Budapest, P.O.Box 1000  
Phone: (36-1) 317-3117, 411-6249  
Fax: (36-1) 317-4017

E-mail:

Director: HUBA PAÁL

Chairman of the council of research groups: BÉLA  
HALÁSZ, O.M.

Vice-chairmen of the council of research groups:  
GYÖRGY HUNYADY, C.M., KÁLMÁN MEDZIHRADESKY,  
O.M.

## UNITS

AT THE BUDAPEST UNIVERSITY OF ECONOMIC  
SCIENCES AND PUBLIC ADMINISTRATION

“Complex Futures Studies” Research Group  
H-1828 Budapest, P.O.Box 489  
Head: ERZSÉBET NOVÁKY, D.Sc. (ECONOMICS)

Development Studies Research Team of the  
Department of World Economics  
H-1093 Budapest, Fővám tér 8  
Head: TAMÁS SZENTES, O.M.

“Economic and Social History” Research Group  
H-1093 Budapest, Fővám tér 8  
Head: JÁNOS BUZA, C.Sc. (history)

“European Economic Policy” Research Group  
H-1828 Budapest 5, P.O.Box 489  
Head: Tibor Palánkai, C.M.

“International Relations” Research Group  
H-1093 Budapest, Fővám tér 8.  
Head: ZSOLT ROSTOVÁNYI, D.Sc. (economics)

“Together for Europe” Research Group  
H-1093 Budapest, Fővám tér 8  
Head: ATTILA ÁGH, D.Sc. (politics)

AT THE BUDAPEST UNIVERSITY  
OF TECHNOLOGY AND ECONOMICS

“Alkaloid Chemistry” Research Group  
H-1111 Budapest, Gellért tér 4  
Head: LAJOS NOVÁK, D.Sc. (chemistry)

“Computational Mechanics of Supporting Structures”  
Research Group  
H-1111 Budapest, Műegyetem rkp. 3  
Head: ZSOLT GÁSPÁR, O.M.

“Control Engineering” Research Group  
H-1111 Budapest, Goldmann György tér 3  
Head: ISTVÁN NAGY, O.M.

“Design Theory of Structures” Research Group  
H-1521 Budapest, P.O.Box 91  
Head: MIKLÓS IVÁNYI, D.Sc. (technology)

“Dynamics of Machines and Vehicles”  
Research Group  
H-1502 Budapest, P.O.Box 91  
Head: GÁBOR STÉPÁN, C.M.

“Geoinformatics” Research Group  
H-1111 Budapest, Műegyetem rkp. 3  
Head: ÁKOS DETREKŐI, O.M.

- “Geotechnics” Research Group  
H-1111 Budapest, Műegyetem rpt. 3  
Head: JÓZSEF FARKAS, D.Sc. (technology)
- “Informatics and Electronic” Research Group  
H-1111 Budapest, Goldmann György tér 3  
Head: LÁSZLÓ GYÖRFI, C.M.
- “Metal Technology” Research Group  
H-1111 Budapest, Goldmann György tér 3  
Head: JÁNOS GINSZTLER, C.M.
- “Organic Chemical Technology” Research Group  
H-1111 Budapest, Műegyetem rpt. 3  
Head: LÁSZLÓ TÓKE, O.M.
- “Physical Geodesy and Geodynamics” Research Group  
H-1521 Budapest, P.O.Box 91  
Head: JÓZSEF ÁDÁM, C.M.
- “Reinforced Concrete” Research Group  
H-1111 Budapest, Bertalan Lajos u. 2. Z. 916  
Head: ISTVÁN HEGEDŰS, D.Sc. (technology)
- “Research and Development” Research Group  
H-1111 Budapest, Műegyetem rpt. 9 “T” 201  
Head: JÁNOS FARKAS, D.Sc. (sociology)
- “Solid in Magnetic Fields” Research Group  
H-1521 Budapest, P.O.Box 91  
Head: ANDRÁS JÁNOSSY, O.M.
- “Stochastics” Research Group  
H-1521 Budapest, P.O.Box 91  
Head: IMRE CSISZÁR, O.M.
- “Technical Analytical Chemistry” Research Group  
H-1111 Budapest, Szent Gellért tér 4  
Head: SÁNDOR GÁL, C.M.
- “Theory of Condensed Matter” Research Group  
H-1111 Budapest, Budafoki út 8  
Head: ALFRÉD ZAWADOWSKI, O.M.
- “Applied Number Theory” Research Group  
H-1518 Budapest, P.O.Box 32  
Head: IMRE KÁTAL, O.M.
- “Biotechnology” Research Group  
H-1117 Budapest, Pázmány Péter stny. 1/c.  
Head: LÁSZLÓ GRÁF, C.M.
- “Classical Studies” Research Group  
H-1052 Budapest, Piarista köz 1  
Head: MIKLÓS MARÓTH, C.M.
- “Communication Theory”  
Research Group  
H-1378 Budapest, P.O.Box 4  
Head: GYÖRGY HUNYADY, C.M.
- “Comparative Ethology”  
Research Group  
H-1117 Budapest, Pázmány Péter stny. 1/c.  
Head: VILMOS CSÁNYI, C.M.
- “Ecology and Theoretical Biology”  
Research Group  
H-1117 Budapest, Pázmány Péter stny. 1/c.  
Head: EÖRS SZATHMÁRI, D.Sc. (biology)
- “Environmental and Macromolecular Chemistry”  
Research Group  
H-1518 Budapest, P.O.Box 32  
Head: GYULA ZÁRAY, D.Sc. (chemistry)
- “Evolutionary Genetics” Research Group  
H-1117 Budapest, Pázmány Péter stny. 1/c.  
Head: GÁBOR VIDA, O.M.
- “Geology” Research Group  
H-1117 Budapest, Pázmány Péter stny. 1/c.  
Head: JÁNOS HAAS, D.Sc. (earth sciences)
- “Geophysics and Environmental Physics”  
Research Group  
H-1117 Budapest, Pázmány Péter stny. 1/c.  
Head: ATTILA MESKÓ, O.M.
- “Hungarian-French Social Sciences Workshop”  
Research Group  
H-1088 Budapest, Múzeum krt. 6-8.  
Head: GYÖRGY GRANASZTÓI, C.Sc. (history)

AT THE EÖTVÖS LORÁND UNIVERSITY, BUDAPEST

“Altaic Studies” Research Group  
H-1088 Budapest, Múzeum krt. 4/b  
Head: GYÖRGY KARA, C.M.

- “Immunology” Research Group  
H-1117 Budapest, Pázmány Péter stny. 1/c.  
Head: ANNA ERDEI, D.Sc. (biology)
- “Interdisciplinary Archaeology” Research Group  
H-1364 Budapest, P.O.Box 107  
Head: MIKLÓS SZABÓ, O.M.
- “Jewish Studies” Research Group  
H-1364 Budapest, P.O.Box 107  
Head: GÉZA KOMORÓCZY, C.Sc. (linguistics)
- NATO Information and Research Centre  
H-1364 Budapest, P.O.Box 109  
Head: LÁSZLÓ VALKI, D.Sc. (law)
- “Neurobiology” Research Group  
H-1117 Budapest, Pázmány Péter stny. 1/c.  
Head: GÁBOR JUHÁSZ, D.Sc. (biology)
- “Nuclear Structures” Research Group  
H-1518 Budapest 112, P.O.Box 32  
Head: ATTILA VÉRTES, O.M.
- “Peptide Chemistry” Research Group  
H-1518 Budapest, P.O.Box 32  
Head: FERENC HUDECZ, D.Sc. (chemistry)
- “Philosophy of Language” Research Group  
H-1052 Budapest, Piarista köz 1  
Head: JÁNOS KELEMEN, D.Sc. (philosophy)
- “The Roman and Migration Periods” Research Group  
H-1088 Budapest, Múzeum krt. 4-6  
Head: Bartosiewicz László, D.Sc.
- “Spectroscopic Analysis of Structure”  
Research Group  
H-1518 Budapest 112, P.O.Box 32  
Head: PÁL SOHÁR, C.M.
- “Statistical Physics” Research Group  
H-1518 Budapest, P.O.Box 32  
Head: ANDRÁS PATKÓS, C.M.
- “Structural Chemistry” Research Group  
H-1518 Budapest, P.O.Box 32  
Head: ISTVÁN HARGITTAI, O.M.
- “Studies of the Periodical *Nyugat*” Research Group  
H-1052 Budapest, Piarista köz 1  
Head: ZOLTÁN KENYERES, D.Sc. (literature)
- “Theoretical Physics” Research Group  
H-1518 Budapest, P.O.Box 32  
Head: ZALÁN HORVÁTH, C.M.
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One of the country's largest information centres, founded in 1826, the Library of the Hungarian Academy of Sciences holds over one million volumes of books, almost 290,000 volumes of Hungarian and foreign periodicals, some 600,000 manuscripts, 22,000 microfilms. The Oriental Collection of international renown and the Department of Manuscripts and Old Books deserve special mention. In addition to the main library, the Academy's research institutes and centres also maintain special libraries, some of which are of national importance in their particular fields of learning.

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On the first floor of the Academy's Palace, the beautifully furnished and finely decorated premises of the Scientists' Club serves several purposes. In addition to functioning as a normal club, workshop meetings and discussions, even small conferences, and, occasionally, chamber-concerts are also held there.

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E-mail: [matud@helka.iif.hu](mailto:matud@helka.iif.hu)  
Editor-in-chief: VILMOS CSÁNYI, O.M.  
Managing editor: LÁSZLÓ ELEK

A monthly journal which keeps track of and reports on international advancement, and particularly Hungarian achievements, in science and scholarship. It reports on the science policy and corporate activities of the Hungarian Academy of Sciences as the Public Chamber of the Hungarian scientific community, and serves as a forum for Hungarian scientists and scholars for expressing their views on scientific and science policy matters.

## AKADÉMIA (MAGAZINE OF THE HUNGARIAN ACADEMY OF SCIENCES)

Editorial office: H-1051 Budapest, Roosevelt tér 9  
Tel/fax: (36-1) 302-5638

Responsible editor: B. ISTVÁN SZABÓ, PH.D.  
Editor: KORNÉLIA BURUCS

The quarterly news magazine *Akadémia* supplies detailed information on the activities of the Academy's leading and other bodies, R&D centres, institutes and groups, and on scientific and other meetings. It also covers personal and other news concerning the Academy's institutional life.

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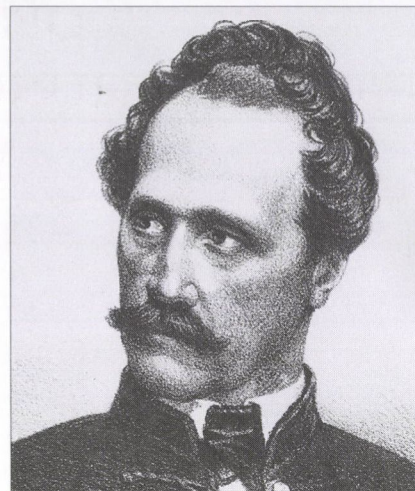
The Academy's monthly gazette, edited by the Secretariat of the Hungarian Academy of Sciences. It publishes science and technology related and other relevant legislation by Parliament, government decrees and other legal rules. Its duties include the publication of the official texts of decisions and other rulings by the Academy's leaders and leading bodies. It also contains other official communication concerning the research network of the Academy, the awarding of degrees and announcements of grant competitions.



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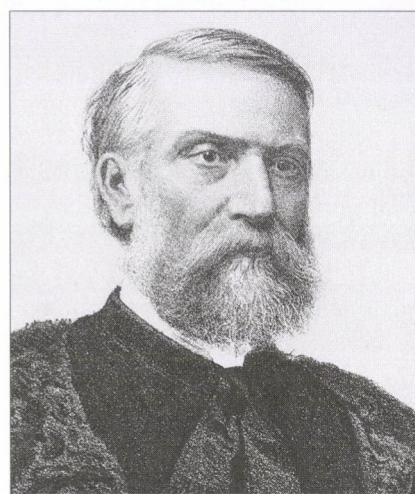
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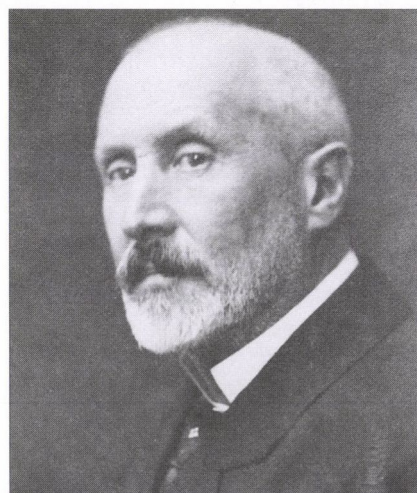
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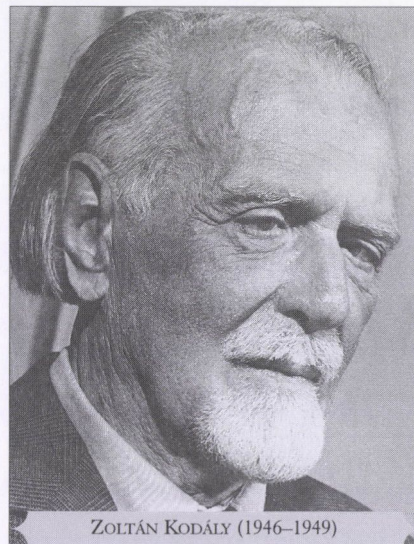




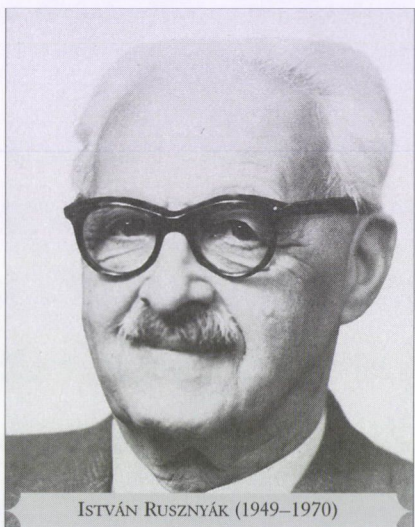
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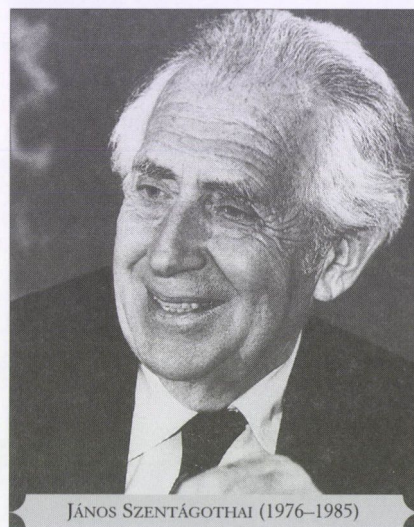
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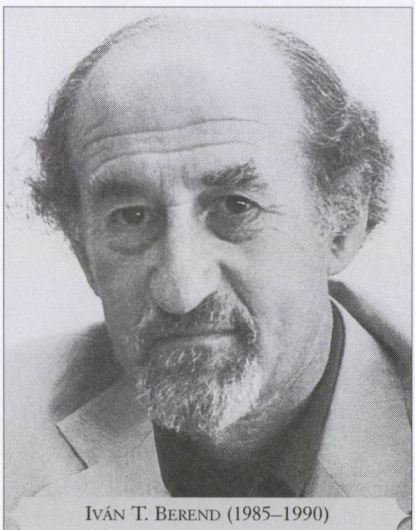
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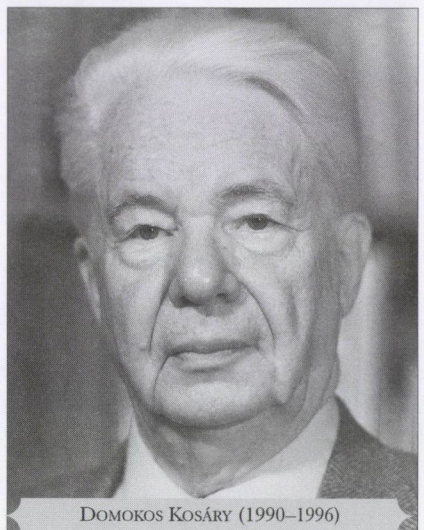
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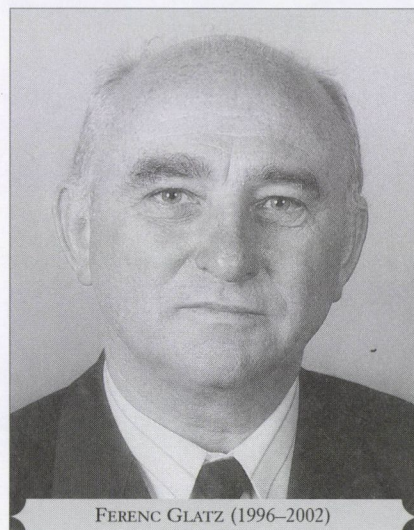
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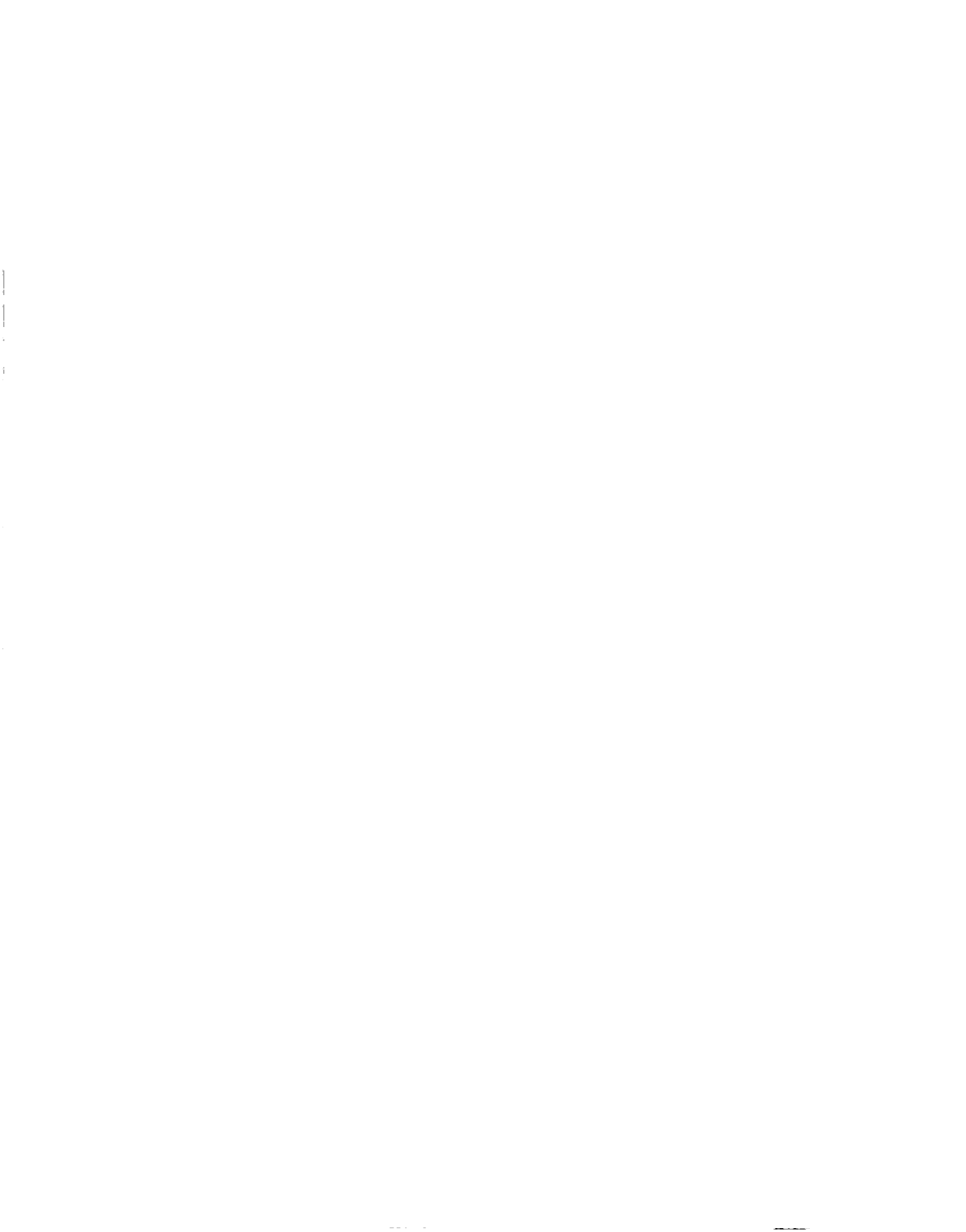
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