

Specific chapters of the faculty's annual reports (2014-2018):

Faculty of Science, Humanities and Education

The Faculty of Science, Humanities and Education of TUL (FP TUL) mainly provides education for future teachers and other educational workers. Thus, the faculty's scientific and research activities focus on areas related to its mission (i.e. research in education and the teaching methods of specific subjects). Besides these areas, the faculty also conducts basic and applied research in the fields comprising the theoretical foundations of teacher training programs. However, given the wide variety of programs offered, as well as the faculty's strong emphasis on its mission, the extent of its research activities is on a different scale than that of specialized faculties.

At the same time, the faculty has had an important role in the R&D&I activities of the whole university from its very establishment. Departments and researchers with a profile in pure science, and some of the social sciences and humanities, were installed at the faculty with the explicit aim to avoid the need for such units at each faculty. Thanks to this decision, TUL can enlist the potential of this faculty for research projects reaching beyond the boundaries of the other faculties' areas of focus.

APPLIED RESEARCH

As a result of the faculty's area of focus, contract research activities were not very extensive. Examples include, above else, measuring piezoelectric properties, analysing samples, testing the antibacterial effects of filters, and quality of life research.

Besides contract research, departments of natural science received further minor commissions: the application of salts, analyses of samples of metals, oils and filters, antibacterial and microbiological tests, GIS.

The research of departments of social sciences was supported by gifts assisting the publication of academic texts or the organizing of academic events.

Projects:

[Composite Material for Filtrating Burnt Gases and How to Produce This Material](#): This invention concerns the method of producing a composite material for filtering combustion products.

[Antibacterial Hybrid Layer Counteracting Pathogenic Bacterial Strains, Especially the MRSA Bacterial Strain and the Method of Making Such a Layer](#): The invention of an antibacterial hybrid layer which counteracts pathogenic bacteria.

[Detector of the Viscous and Elastic Properties of Soft Tissue, In Vivo, In Situ](#): A functioning sample device called the myotonometer. This device simulates the (medical) examination by palpation to assess the viscous and elastic properties of tissue in a non-invasive manner.

[Direction Liberec & Jablonec nad Nisou. Map of Liberce and Jablonec for Families](#): The main aim of this map is to support the development of tourism in Liberec and Jablonec nad Nisou.

[KLIMATEXT Atlas. Precipitation Conditions of the Euroregion Neisse-Nisa-Nysa in 1991-2010](#): A collection of maps representing the conditions of precipitation in the Neisse-Nisa-Nysa Euroregion.

APPLIED RESEARCH RESULTS

[Composite Material for Filtrating Burnt Gases and How to Produce This Material](#): This invention concerns the method of producing a composite material for filtering combustion products.

[Antibacterial Hybrid Layer Counteracting Pathogenic Bacterial Strains, Especially the MRSA Bacterial Strain and the Method of Making Such a Layer](#): The invention of an antibacterial hybrid layer which counteracts pathogenic bacteria.

[Detector of the Viscous and Elastic Properties of Soft Tissue, In Vivo, In Situ](#): A functioning sample device called the myotonometer. This device simulates the (medical) examination by palpation to assess the viscous and elastic properties of tissue in a non-invasive manner.

[Direction Liberec & Jablonec nad Nisou. Map of Liberce and Jablonec for Families](#): The main aim of this map is to support the development of tourism in Liberec and Jablonec nad Nisou.

[KLIMATEXT Atlas. Precipitation Conditions of the Euroregion Neisse-Nisa-Nysa in 1991-2010](#): A collection of maps representing the conditions of precipitation in the Neisse-Nisa-Nysa Euroregion.

[The "National" School System During the First Czechoslovak Republic](#). The authors of this volume are analyzing the school system as a means of addressing national and social issues in the multinational Czechoslovakia of the First Republic. The publication also indirectly contributes to the ongoing debate on reforming the Czech school system.

[Why My Children Do Not Attend Nursery School. Attitudes of Parents Whose Decision Making Is Not Limited by Socioeconomic Disadvantage](#). The aim of this survey was to understand why some parents from ordinary middle-class families do not send their children to kindergarten. Results were discussed in the context of the enactment of legislation introducing compulsory attendance for the pre-school year of kindergarten.

[Toponyms of the Local Landscape and Their Means of Research](#). This monograph showcases the potential of combining linguistic research with the methods of GIS. The book is accompanied by a web-based map application, sharing information about individual toponyms, and their linguistic, geographical, cultural and social aspects.

[Robust Numerical Schemes for the Pricing of Selected Options](#). Option pricing is a very attractive issue of financial engineering and optimization. This book presents three novel numerical techniques, and as such, it can prove useful for practitioners in the financial sector.

[Maps of Regional Price Levels Broken Down on the Basis of CZ-COICOP to Create Realistic Markers of Income](#). A collection of fifteen maps visualizing price levels on the territory of the Czech Republic.

COOPERATION WITH THE NON-ACADEMIC ENVIRONMENT AND TECHNOLOGY TRANSFER

The most significant form of interaction is the participation of experts of the application sphere in teaching. This primarily means teachers participating in the organization of teaching practice.

In addition, the faculty's departments nurture good relations with regional self-governments, cultural, educational and other institutions. As examples, cooperation with the Regional Gallery of Liberec, The Museum of North Bohemia in Liberec, the National Pedagogical Museum and Library of J. A. Comenius, amongst others, could be mentioned. This includes the joint organization of exhibitions (e.g. [Old Maps of the Jizera Mountains](#) or [Metznerbund](#)) and conferences (e.g. [New Schools and New Education in a New Europe](#)). The [Direction Liberec & Jablonec nad Nisou](#) maps are also results of regional cooperation, while the History Department jointly publishes the proceedings of the Czech-Slovak Relations seminar with the Institute for the Study of Totalitarian Régimes, and the Department of Education and Psychology publishes the international academic journal [Historia Scholastica](#) in cooperation with the National Pedagogical Museum and Library of J. A. Comenius.

Cooperation with the Regional Public Health Authority of the Liberec Region is also significant, having led to a successful project sponsored by the Technological Agency of the Czech Republic. The faculty's cooperation with the corporate sphere has been discussed above. Additional partners of the faculty are other universities, institutes of the Academy of Science, documented in the form of common projects and publications. Internal cooperation with other parts of the university is also important for the faculty.

RECOGNITION BY THE SCIENTIFIC COMMUNITY

3.10 The most significant individual awards for R&D&I

The evaluated unit presents a maximum of ten examples of the most significant R&D&I awards received (in the Czech Republic and in other countries) in the 2014–2018 reporting period.

Self-evaluation:

No employee of the faculty received any prestigious Czech or international award in the given period.

HTML links to additional documentation:

3.11 Recognition by the international R&D&I community

The evaluated unit provides the following information / examples demonstrating recognition by the international scientific community in the 2014–2018 reporting period, with a commentary:

It presents a maximum of ten examples of its academic staff's participation on the editorial boards of international scientific journals (e.g. editor, member of the editorial board) in the appendix (table 3.11.1),

It presents a maximum of ten examples of the most significant invited lectures by the evaluated unit's academic staff abroad in the appendix (table 3.11.2),

It presents a maximum of ten examples of the most significant lectures by foreign scientists and other guests relevant to the R&D&I field in the appendix (table 3.11.3),

It presents a maximum of ten examples of the most significant elected memberships of professional societies (table 3.11.4).

Self-evaluation:

A whole range of experts with an international recognition works at the faculty (cf. the relevant sections of the attached tables). The faculty is also regularly visited by foreign experts, which also bears witness to its international standing.

HTML links to additional documentation: <https://www.fp.tul.cz/fakulta/predpisy-a-dokumenty>

POPULARISATION OF R&D&I

The faculty also organizes activities popularizing the results of its R&D&I activities. The most significant examples include:

[GIS Day](#), [Physics Fair](#), public lectures of [history](#), the exhibitions [Old Maps of the Jizera Mountains](#) and [Metznerbund](#), and the [Springs Bring Us Together](#) summer school for high school students. The map series [Direction Liberec & Jablonec](#) and [Atlas of Springs](#) also serve the aim of popularizing R&D&I, along with the book [The “National” School System During the First Czechoslovak Republic](#), and the web-based map application [Toponyms of the Local Landscape](#)

TABLES

1 Applied research projects

1.1 Projects supported by a provider from the Czech Republic

As the beneficiary						
Provider	Project title	Support (EUR thousand)				
		2014	2015	2016	2017	2018
GAČR	Stability and Change in the Teaching Staff of Primary Schools (GA16-10057S)			799	796	797
GAČR	Robust Numerical Schemes for the Pricing of Selected Options Under Various Market Conditions (GA16-09541S)			781	811	811
MŠMT	MSCA Mobility Technical University of Liberec (EF17_050/0008461)					1590
MŠMT	Strengthening the International Cooperation of the KLIMATEXT Research Team	1217				
Total						
As another participant						
Provider	Project title	Support (EUR thousand)				
		2014	2015	2016	2017	2018
TAČR	Technology Transfer of the Preparation of Pure Silica Nanofiber Layers for Medicine into Industrial Production (TH03020142)					593
TAČR	Hydrophobic UV-lacquers and Nano-layers Protecting Substrates Against Bio-attack (TH02020145) – project transferred from the Institute of Health Studies				(800)	800
TAČR	PROSYKO - Pro-Active System of Commercialization at TU Liberec (TG01010117) – awarded to the Institute for Nanomaterials, Advanced Technologies and Innovation – further subdivided to sections. The faculty was assigned to section 6 in 2015 and 2016, and section 19 in 2018.		657	522		119
Ministry of Culture	Making the Audio Archives of the Czech Radio Accessible for Complex Searching (DF11P010VV013)	400				
GAČR	Control of the Microstructure and Properties of Lead-free Piezo Ceramic Materials Through Advanced Ceramic Processing (GA18-20498S)					336
GAČR	Robust Inference on Random Processes and Functional Data, with Applications Mainly in Econometrics and Finances (GA15-00243S)		585	581	581	

GAČR	Advanced Models of Precipitation Extremes and Their Applications in High-resolution Climate Model Simulations (GA14-18675S)	665	968	991		
MŠMT	Getting New Knowledge of the Microworld Using the CERN Infrastructure (LTT17018)				0	301
MŠMT	Research Infrastructure for Experiments at CERN (LM2015058)			576	521	521
MŠMT	Investigation of the Microworld using the CERN Infrastructure (LG15052)			113	144	
MŠMT	Collaboration of the Czech Republic with CERN (LG13031)	440	420			
MŠMT	Digital Technology in Social Work (7AMB13PL047)	44				
MŠMT	Study of Strongly Interacting Matter (7E12066)	39				
Total						

1.2 Projects supported by a provider from another country

As the beneficiary						
Provider	Project title	Support (EUR thousand)				
		2014	2015	2016	2017	2018
European Regional Development Fund, Priority 3	Quellen Verbinden			4427	6894	8125
Total						
As another participant						
Provider	Project title	Support (EUR thousand)				
		2014	2015	2016	2017	2018
European Regional Development Fund, Priority 3	The Czech-Saxonian Literary Landscape. An Interactive Map with Multiple Uses (LIS)				1705	1663
Total						

2 Contract research

2.1 Research work contracted by a client from the Czech Republic

Client	Research title	Revenues (EUR thousand)				
		2014	2015	2016	2017	2018
Noliac Ceramics, s.r.o. and T&Partners Praha, o.s.	Expertise on, and the measuring of, the piezo electric properties of PZT ceramics	44	10,8	15,12	18,36	
Statutory City of Liberec	Research on the Quality of Life in the City of Liberec – research carried out by the Department of Geography under the supervision of Dr Murgaš			80		
NET4GAS, s.r.o.	Collecting and analyzing soil samples				150.04	
Atrea s.r.o.	Filters – testing effectivity through simulated experiments of chemical properties					60.5
Atrea s.r.o.	Filters – testing antibacterial properties					283.14

Research Institute of Balneology	Research on the environmental effects of the Somavedic device					136.488
Valeo Autoklimatizace, k.s., Prague	Expertise on, and the measuring of, the piezo electric properties of PZT ceramics					37
Total						

3 Revenues from non-public sources (besides grants or contract research)

3.1 Overview of revenues from non-public sources raised for the 2014–2018 reporting period

Revenue type	Revenues (EUR thousand)				
	2014	2015	2016	2017	2018
IZOMAT Káranice – applying salts to coverings, MKB tests	36.3				
ELCERAM a.s. – applying salts to ceramics		5.545			
WIKOV MGI a.s. - analyzing samples of oils and filters			4.961		
PRAKTIK systém, s.r.o. – OSH training, practical analysis of metals			27.83		
SACURY Cosmeceutical – applying salts, antibacterial and antimycotic tests				22.385	
VÚB a.s. - MKB tests of microbiological knitted fabrics (mikrobiologické) platenin					34.485
Pragotherm servis fasád – applying salts to ventilation grilles					3.63
Total					

4 Applied research results with an economic impact on society

4.1 Overview of applied research results in the 2014–2018 reporting period

Results	Year	Title
European patent		
American patent		
Czech licenced patent	2018	Composite Material for Filtrating Burnt Gases and How to Produce This Material (307 624)
	2015	Antibacterial Hybrid Layer Counteracting Pathogenic Bacterial Strains, Especially the MRSA Bacterial Strain and the Method of Making Such a Layer (305 045)
Other foreign patents		
Licences sold		
Significant analyses / surveys / studies		
Software	2015	Dynamic Maps of Regional Price Levels, Including the Representation of Components of Expense
Spin-off with a stake held by the evaluated unit		
Spin-off with no stake held by the evaluated unit		
Prototypes		

Varieties and breeds		
Other		
Utility model	2016	Device for Detecting Viscous and Elastic Components of Soft Tissues In Vivo, In Situ, using Myotonometry
Functioning sample	2016	Detector of the Viscous and Elastic Properties of Soft Tissue, In Vivo, In Situ
Research report	2015	Research report on Optimizing Heat Flux in a Laminating Device Using Modern Methods of Modeling
N – methodology Subtype: Specialized map with technical content	2015	Direction Liberec & Jablonec nad Nisou. Map of Liberec and Jablonec for Families
N – methodology Subtype: Specialized map with technical content	2014	KLIMATEXT Atlas. Precipitation Conditions of the Euroregion Neisse-Nisa-Nysa in 1991-2010

5 Significant applied research results with an impact other than an economic one on society

5.1 Overview of applied research results for the 2014–2018 reporting period with an impact other than an economic one on society

Result type	Name	Anticipated impact
B – Academic Monograph	The “National” School System During the First Czechoslovak Republic	The book focuses on the reform of the school system, the inner functioning of schools, and the issue of the position of pupils in schools during the First Republic. As such, it also contributes to our contemporary debate on reforming the Czech school system.
J – article Jsc	Why My Children Do Not Attend Nursery School. Attitudes of Parents Whose Decision Making Is Not Limited by Socioeconomic Disadvantage	Compulsory attendance during the last year spent at preschool before starting the first year of primary school was introduced in the Czech Republic in the 2017/2018 school year. The article focuses on those ordinary middle-class families whose children did not attend kindergarten, or whose attendance was low and irregular. Since this group is rather overlooked in discussions about the introduction of compulsory attendance, it is of key importance to gain some insights into how these parents develop their children without institutional preschool education, how successful they are, and what kind of influence it has on children’s progression from preschool to primary school education.
B – Academic Monograph	Toponyms of the Local Landscape and Their Means of Research	The book crosses the boundaries of linguistic research through its enrichment with the use of GIS. It is useful for institutions of public administration in the analyzed region, as well as for the general public.
B – Academic Monograph	Robust Numerical Schemes for the Pricing of Selected Options	Option pricing is a very attractive issue of financial engineering and optimization. This book presents three novel numerical techniques, and as such, it can prove useful for practitioners in the financial sector.
N – methodology Subtype: Specialized map	Maps of Regional Price Levels Broken Down on the Basis of CZ-COICOP to Create Realistic Markers of Income	These maps are primarily aimed at territorial development offices at institutions of public administration. Its use lies above all in a more precise identification of real regional socio-

with technical content (Nmap)		economic disparities in the context of evaluating regions from the perspective of the planned volume and type of support for more efficient economic policies.
N – methodology Subtype: Nmap	Family Businesses in the Municipalities of the Czech Republic	Delivered to the Association of Small and Medium-Sized Enterprises and Crafts of the Czech Republic.
N – methodology Subtype: Nmap	A Timeline of the Usability of the Territory	Modifying the organization of urban plans in a way which takes into consideration how, in the perspective of multiple years, the given territory is progressively stabilized, with its problematic properties getting continuously less pronounced
N – methodology Subtype: Nmap	A Critical Evaluation and Improvement of Urban Planning Documentation	This map forms the basis of urban planning, and presents results gained through using the information system developed for this purpose
N – methodology Subtype: Nmap	An Overview of the Functional Usability of the Territory	The map has a meaningful role in assessing a selected locality of Most during the process of updating its urban plans

6 Recognition in the international R&D&I community

6.1 Participation of the evaluated unit's academic staff on the editorial boards of international scientific journals in the 2014–2018 reporting period

Name, surname and title(s) of the evaluated unit's member of staff	Title, publisher, city(-ies) and country(-ies) of origin of the scientific journal
Tomáš Kasper, doc. PhDr., Ph.D.	Paedagogica Historica, International Journal of the History of Education , Taylor & Francis Online, UK
Tomáš Kasper, doc. PhDr., Ph.D.	Historia scholastica , chief editor, National Pedagogical Museum and Library of J. A. Comenius, Technical University of Liberec, Czech Republic
Dana Kasperová, doc. PhDr., Ph.D.	Polska Mysl Pedagogiczna , Jagellonian University Press, Kraków, Poland
Aleš Suchomel, doc. PaedDr., Ph.D.	Acta Gymnica , Palacký University Olomouc, Czech Republic
Petr Urbánek, doc. Dr. PaedDr.	Orbis Scholae , Charles University, Prague, Czech Republic
David Václavík, doc. PhDr., Ph.D.	Religion and Society in Central and Eastern Europe, ISORECEA , Zagreb, Croatia
Miroslav Valeš, doc., Ph.D.	Romanica Olomucensia , Palacký University Olomouc, Czech Republic
Zénó Vernyik, Mgr., Ph.D.	Americana: E-Journal of American Studies in Hungary , Szeged, Hungary
Tilo Weber, apl. Prof. habil., Ph.D.	Transferwissenschaften , Peter Lang-Verlag, Berlin, Germany
Kamil Zágoršek, doc. RNDr., Ph.D.	Bulletin of Geoscience , Czech Geological Survey, Prague, Czech Republic

6.2 The most significant invited lectures by the evaluated unit's academic staff at institutions in other countries during the 2014–2018 reporting period

Name, surname and title(s) of the evaluated unit's member of staff	Invited lecture title	Name of the host institution, conference or other event
Tomáš Kasper, doc. PhDr., Ph.D.	Die sudetendeutschen Jugendbünde zwischen der Reform des neuen Menschen und der sudetendeutschen „Volkserneuerung“ (1918 – 1933)	Kommission für deutsche und osteuropäische Volkskunde in der Deutschen Gesellschaft für Volkskunde e.V., Germany

Tomáš Kasper , doc. PhDr., Ph.D. Dana Kasperová , doc. PhDr., Ph.D.	14. 9. 2016 Vaclav Prihoda und die wissenschaftliche Emanzipierung der tschechischen Pädagogik im Schatten des amerikanischen Vorbilds – eine Zwischenkriegszeitfallstudie , 8. 6. 2018	Padagogische Hochschule Zürich, Switzerland
Sándor Klapcsik , Ph.D.	Acculturation of South Asian Families in Three Diasporic Films , 15. 2. 2017	Bergen International Migration and Ethnic Relations Research Unit, University of Bergen, Norway
Zuzana Pechová , Mgr., Ph.D.	Art on the Edge , 26. 10. 2017	Utah State University, Caine College of Arts, USA
Jan Pícek , prof. RNDr., CSc.	Selection of regression quantile threshold , lecture invited to the section organized by Ivette Gomes, University of Lisbon, 6. 12. 2014	The 7th International Conference of the ERCIM WG on Computational and Methodological Statistics, ERCIM 2014, Pisa, Italy
Martin Plešinger , doc. Ing., Ph.D.	The Core Problem within a Linear Approximation Problem with Multiple Right-Hand Sides , 12. 6. 2014	The Householder Symposium XIX on Numerical Linear Algebra, 8.–13. 6. 2014, Spa, Belgium
Kateřina Portmann , Ph.D.	Die Folgen der Niederschlagung 1968 und die Entwicklung hin zur Samtenen Revolution 1989 , 27. 10. 2018	„Panzer gegen Freiheit und Demokratie – der Prager Frühling vor 50 Jahren. Auslöser damals – Folgen für heute“, Ackermann-Gemeinde, Würzburg, Germany
Miroslav Valeš , doc., Ph.D.	Diálogo de Saberes: entre la Interculturalidad y Educación , 18. 7. 2018	Universidad politécnica Salesiana, Cuenca, Ecuador
Zénó Vernyik , Mgr., Ph.D.	A New Cummings? An Attempt at Analyzing E. E. Cummings' New York Poems , 22. 9. 2015	University of Szeged, Hungary
Tilo Weber , apl. Prof. habil., Ph.D.	Frames, Ereignisse, Prototypen – was Sprachen, Literaturen und Kulturen verbindet , 5. 10. 2018	University of Pannonia, Veszprém, in cooperation with the Veszprém Branch of the Hungarian Academy of Science and the Előd Halász Foundation, Interdisziplinäre Tagung Ereignis in Sprache, Literatur und Kultur, Veszprém, Hungary

6.3 The most significant lectures by foreign scientists and other guests relevant to the R&D&I field at the evaluated unit during the 2014–2018 reporting period

Name, surname and title(s) of the lecturer	Lecturer's employer at the time of the lecture	Invited lecture title
Santiago Beguería	Consejo Superior de Investigaciones Científicas (CSIC), Zaragoza, Spain	Uncertainties in climatological fields based on observational data and their propagation in global drought studies , 24. 4. 2014

Klaus-Peter Eichler , prof. Dr.	Pädagogische Hochschule Schwäbisch Gmünd, Germany	Possibilities to connect arithmetic and geometry — Chance to realize child-centered math-lessons , 23. 10. 2017
Vera Ferreira	Interdisciplinary Centre for Social and Language Documentation, CIDLeS, Minde, Portugal	Language Documentation and Minority Languages , 8. 11. 2016
Dennise Gackstetter , M.A., M.F.A	Utah State University, USA	The Grater Benefits of Arts Education , 9. 5. 2017
Ellen Litwicki , Ph.D.	State University of New York at Fredonia, USA	Defining the Gift: From Emerson to the Gift Registry , 14. 1. 2016
Francois Pigache , Dr.	INPT Toulouse, France	Smart materials (SMA, piezo, magnetostrictive, electrorheological and magnetorheological fluids) , 4. 11. 2014
Simonetta Polenghi	Università Cattolica del Sacro Cuore Milano, Italy	Giovanni Gentiles Schulreform zwischen Liberalismus und Totalitarismus. Von der Revision der Schulbücher (1923) zum „Staatsbuch“ (1930) , 1. 6. 2015
Ehrenhard Skiera , Prof. Dr.	Emeritus Professor, Universität Flensburg, Germany	Anders leben und lernen in kalter Zeit – Über den Zusammenhang von Lebensreform und Reformpädagogik , 29. 5. 2014
Miikka Sukki	UniSport, University of Helsinki, Finland	Case UniSport: How do we enhance wellbeing at the university community , 26. 2. 2015
Winfried Thielmann , prof. Dr.	TU Chemnitz, Germany	Warum die europäische Wissenschaft mehrsprachig sein muss , 25. 10. 2018

6.4 The most significant elected membership in foreign of professional societies relevant to the R&D&I field at the evaluated unit during the 2014–2018 reporting period

Name, surname and title(s) of the evaluated unit's member of staff	Name of professional society	Type of membership
Jiří Erhart , Prof. Mgr., Ph.D.	The International Union of Pure and Applied Physics (IUPAP)	Member and Vice-chair of Commission C10
Tomáš Kasper , doc. PhDr., Ph.D.	DGFE - Sektion Historische Bildungsforschung	Member of division
Jan Pícek , prof. RNDr., CSc.	Bernoulli Society for Mathematical Statistics and Probability	Member of the Board of the Committee on Probability and Statistics in the Physical Sciences
Jan Pícek , prof. RNDr., CSc.	European Courses in Advanced Statistics (ECAS)	Board Member

Martin Plešinger , doc. Ing., Ph.D.	Czech Mathematical Society	Vice-chair
Michal Podzimek , PaedDr. ICLic., Th.D., Ph.D.	Czech Society for Catholic Theology, a member association of the European Society for Catholic Theology	Secretary
Aleš Suchomel , doc. PaedDr., Ph.D.	Czech Kinanthropology Association	Member of the Executive Board
Josef Šedlbauer , prof. Ing. Ph.D.	The International Association for the Properties of Water and Steam	Vice-chair of the Working Group Properties of Aqueous Solutions
Miroslav Šulc , doc. RNDr. Ph.D.	Union of Czech Mathematicians and Physicists	Secretary of the Board
Kamil Zágoršek , doc. RNDr., Ph.D.	International Bryozoology Association	Member of the Executive Board