

Vedecká rada
19.10.2022

Návrh na udelenie titulu doctor honoris causa (Dr.h.c.) profesorovi Jean-Marie Lehnovi

Predkladá: **Dr. h. c., prof.h.c., prof. Dr. Ing. Oliver Moravčík**
rektor STU

Vypracoval: **prof. Ing. Anton Gatial, DrSc.**
dekan FCHPT STU

Schválené: Vedecká rada FCHPT STU v Bratislave 04.10.2022

Návrh uznesenia: Vedecká rada STU schválila predložený materiál:

- a/ všetkými hlasmi
- b/ väčšinou hlasov
- c/ neschválila

Návrh na udelenie titulu „doctor honoris causa” (Dr.h.c.) profesorovi Jean-Marie LEHNOVI

1. Osobné údaje navrhovaného

Meno, priezvisko, tituly:	Professor Dr. Jean-Marie LEHN
Dátum a miesto narodenia:	30.9.1939, Rosheim, France
Adresa pracoviska:	ISIS University of Strasbourg, 8 allée Gaspard Monge 67000 Strasbourg, France Tel: +33 368 85 51 45 email: lehn@unistra.fr web: http://www-isis.u-strasbg.fr

Súčasná pozícia / Current position:

- Professor at the University of Strasbourg Institute for Advanced Study (USIAS),
Chair of Chemistry of Complex Systems
- Honorary Professor at the Collège de France, Paris
- Emeritus Professor at the University of Strasbourg

2. Dosiahnuté akademické a vedecké hodnosti, priebeh zamestnania / Attained academic and scientific degrees, course of employment

- Director of ISIS (Institut de Science et d'Ingénierie Supramoléculaires), Strasbourg, 1997-2004.
- Director of the Laboratoire de Chimie Supramoléculaire, ISIS, Université de Strasbourg
- Director at the Nanotechnology Institute of the Karlsruhe Institute of Technology, 1998-2016
- Honorary Director, “Lehn Institute of Functional Materials”, Sun Yat Sen University, Guangzhou, since 2010

Vzdelanie / Education:

- Undergraduate Studies, University of Strasbourg: Licence ès-Sciences (Bachelor of Sciences), Strasbourg, 1960;
- Graduate work on “Conformational Studies of Triperpenes” with Professor Guy OURISSON, University of Strasbourg;
- Doctorat-ès-Sciences (Ph.D.), University of Strasbourg, 1963;
- Post-Doctoral Research Fellow at Harvard University, 1964: work on Vitamin B12 total synthesis with Professor Robert B.WOODWARD.

Priebeh zamestnania / Course of employment:

- Member of the Centre National de la Recherche Scientifique (CNRS), 1960-66.
- Maître de Conférences (Assistant Professor) at the University of Strasbourg, 1966-69.
- Professeur sans chaire (Associate Professor) at the University Louis Pasteur of Strasbourg, 1970.
- Professor of Chemistry at the University Louis Pasteur of Strasbourg, 1970-1979.
- Professor at Collège de France, Paris, Chair of Chimie des Interactions Moléculaires 1979-2010.

- Visiting Professor of Chemistry at Harvard University, 1972 (Spring), 1974 (Spring), and on a part time basis *until 1980*.
- Visiting Professor of Chemistry at the E.T.H. Zürich, 1977.
- Alexander Todd Visiting Professor of Chemistry, Cambridge University, 1984.
- Visiting Professor, University of Barcelona, 1985.
- Rolf-Sammet Gastprofessor, Frankfurt University, 1985-86.
- Heinrich-Hertz Gastprofessor, Karlsruhe University, Nov., Déc. 1989.
- Robert Burns Woodward Visiting Professor, Harvard University, 1997, 2000.
- Newton Abraham Professor, Lincoln College, Oxford University, 1999-2000.
- Adjunct Professor at the Asian Institute of Technology, Bangkok, 2005.
- Chair Professor-at-Large, City University of Hong Kong, 2008-2012.
- Honorary Director and Professor at Large, Lehn Institute for Functional Materials, Sun Yat Sen University, Guangzhou, 2010-.
- Emeritus Professor, Université de Strasbourg, 2010-
- Professor, University of Strasbourg Institute of Advanced Study (USIAS, Chair of Chemistry of Complex Systems, 2012-
- Visiting Distinguished Professor, The Hong Kong Academy of Sciences, 2013-
- Visiting Chair Professor-at-Large, Macau University of Science and Technology, 2014.
- Member of the Institute of Advanced Study, City University of Hong Kong, 2016.
- Honorary President of Huashang College, China, 2019.

Vyznamenania / Awards:

Bronze Medal of the CNRS, 1963; Adrian Prize of the Société Chimique de France, 1968; Silver Medal of the CNRS, 1972; Raymond Berr Prize of the Société Chimique de France, 1978; Gold Medal of the Académie Pontificale des Sciences, 1981; Gold Medal of the CNRS, 1981; Pierre Bruylants Medal, Louvain, 1981; Paracelsus Prize of the Swiss Chemical Society, 1982; Alexander von Humboldt Forschungspreis, 1982; Prize of the Commissariat à l'Énergie Atomique awarded by the Académie des Sciences, 1984; Rolf-Sammet Prize, Frankfurt University, 1985; Prize of the Fondation Alsace, 1986; George Kenner Prize, University of Liverpool, 1987; **Nobel Prize in Chemistry, 1987**; Sigillum Magnum, University of Bologna, 1988; Minnie Rosen Award, 1989; Vermeil Medal of the Ville de Paris, 1989; Gold Medal of the Société d'Encouragement au Progrès, 1989; Karl-Ziegler Prize, Gesellschaft Deutscher Chemiker, 1989; Grand Bretzel d'Or, Institut des Arts et Traditions Populaires d'Alsace, 1992; Bonner Chemiepreis, 1993; 1992 "Ettore Majorana-Erice-Science for Peace" Prize, 1994; Gold Medal of the Société Académique Arts–Sciences–Lettres, 1995; ***Gold Medal of Comenius University, Bratislava, 1995; Golden Memorial Medal of the Faculty of Sciences, Charles University, Prague, 1995; Honorary Medal of the Institute of Physical Chemistry, Polish Academy of Sciences, Warszawa, 1996***; The Davy Medal of the Royal Society, 1997; Lavoisier Medal 1997 of the Société Française de Chimie; Top 75 Award, C&N, American Chemical Society, 1998; Allan R. Day Award of the Philadelphia Organic Chemists' Club, 1998; 1998 Messel Medal, Society of Chemical Industry, London; Gold Medal "Giulio Natta" of the Italian Chemical Society, 2003; JSPS Award (Japan Society for the Promotion of Science), 2003; Gold Medal of the 70th Anniversary of the Fondation de la Maison de la Chimie, 2004; Gold Medal of the University Paul Sabatier Toulouse III, 2005, Gold Medal, Scientific Partnership Foundation, Moscow, 2006, Johannes Gutenberg Award, Mainz, 2006; Burckhardt-Helferich Award, Leipzig, 2007; Distinguished Schulich Lectureship Award Colloquium, Technion, Haifa, 2008; Costin Nenitzescu Medal, 2008; Medal of the Czech Chemical Society, 2008; Sigilli

d'Oro, Università degli Studi di Bari, 2008; Sigillum for the Avogadro Lecture, Società Chimica Italiana, University of Salento, 2011; Chandler Medal, Columbia University, 2011; MacDiarmid Medal, University of Pennsylvania, 2011; ERC Advanced Grant, 2011; Sir Derek Barton Gold Medal, Royal Society of Chemistry, 2012; Eucor Medal, 2013; Distinguished Senior Member of the Société Chimique de France, 2013; Chem Pub Soc Europe Honorary Fellow, 2015; **Gold Medal of the Slovak Chemical Society, Bratislava, 2015; Dionýz Ilkovič SAS Medal of Honour of the Slovak Academy of Sciences, Bratislava, 2015; Medal of Merit of the University Adam Mickiewicz, Poznań, 2015;** China Friendship Award, 2015; The Netherlands Award for Supramolecular Chemistry, 2015; Distinguished KIT-Professor, 2016; Honorary Insignia, Bulgarian Academy of Sciences, 2018.; Gold Medal "100 Years of Academician N.M. Emanuel", 2019.

Čestné tituly / Honorary Degrees

— **Honoris Causa Doctorates:** Hebrew University of Jerusalem, 1984; Universidad Autonoma, Madrid, 1985; Georg-August University of Göttingen, 1987; Université Libre of Bruxelles, 1987; Iraklion University, 1989; Università degli Studi di Bologna, 1989; **Charles University of Prague, 1990;** University of Sheffield, 1991; University of Twente, 1991; University of Athens 1992; Polytechnical University of Athens, 1992; Polytechnic University of Bucarest, 1994; Illinois Wesleyan University, 1995; Université de Montréal, 1995; University of Bielefeld, 1998; Weizmann Institute of Science, Rehovot, 1998; Faculté des Sciences Appliquées, Université Libre de Bruxelles, 1999; Nagoya University, 2000; Université de Sherbrooke, 2000; Università di Trieste, 2001; Royal Institute of Technology, Stockholm, 2003; University of St. Andrews, 2004; Heriot Watt University, Edinburgh, 2005; Technical University, St Petersburg, 2005; **Masaryk University, Brno, 2005;** Kyushu University, 2005; M.V. Lomonosov Moscow State University, 2006, Aristotle University of Thessaloniki, 2006; Kazan State University, 2006; Novosibirsk State University, 2006; University of Patras, 2008; Babeş-Bolyai University Cluj-Napoca, 2008; Università della Basilicata, Potenza, 2008; Taras Shevchenko University, Kiev, 2009; Technion, Israel, 2009; City University Hong Kong, 2010; University of Ljubljana 2011; Queen's University, Belfast, 2012; Lviv Polytechnic National University, 2012; University of Oxford (Dr. Sci.), 2014, Macau University of Science and Technology (MUST), 2015; University of Malaga, 2015; Institute of Chemical Technology, Mumbai, 2017; New York University, 2017; University of Cambridge, 2017; University of Bucharest, 2018; **University of Vienna, 2019; University of Chemistry and Technology, Prague, 2019;** University of Adam Mickiewicz in Poznań, 2020; KIIT, Bhubaneswar, 2021.

— **Honorary Professorships:** University of Science and Technology of China, Hefei, 1998; Honorary Professor, Southeast University, Nanjing, 1998; Peking University, 2001; Honorary Professor, Shanghai Jiao Tong University, 2003; Honorary Professor, Nanjing University, 2003; Beijing University, 2005; Zhejiang University, Hangzhou, 2007; Honorary Professor, Shaanxi Normal University, Xi'an, 2007; Special Honorary Professorship, Osaka Prefecture University, Sakai, 2008; Novosibirsk State University, 2012; Xiamen University, 2012; Jilin University, 2013; Shanxi University, 2013; Kyushu University, 2016; China Pharmaceutical University, 2016; Wuhan University of Technology, 2016; University of Electronic Science and Technology, Chengdu, 2017; European University Cyprus, 2018; Wuhan University of Science and Technology, 2018.

Academies

Foreign Associate of the National Academy of Sciences of the USA, 1980.
 Foreign Honorary Member of the American Academy of Arts and Sciences, 1980.
 Foreign Member of the Royal Netherlands Academy of Arts and Sciences, 1983.
 Member of the Académie des Sciences, Institut de France, 1985.
 Foreign Member of the Deutsche Akademie der Naturforscher Leopoldina, 1985.
 Foreign Member of the Accademia Nazionale dei Lincei, 1985.
 Foreign Member of the American Philosophical Society, 1987.
 Honorary Member of the Académie Européenne des Sciences, des Arts et des Lettres, 1987.
 Honorary Member of the Royal Society of Chemistry (Belgium), 1987.
 Member of the Academia Europaea, 1988.
 Member of the Académie d'Alsace, 1989.
 Foreign Associate of the Akademie der Wissenschaften und der Literatur-Mainz, 1989.
 Honorary Member of the Yugoslav Academy of Sciences and Arts, 1990.
 Member of the Akademie der Wissenschaften of Göttingen, 1990
 Associate Member of the Koninklijke Vlaamse Academie van België voor Wetenschappen en Kunsten, 1990.
 Honorary Fellow of the Indian Academy of Sciences, 1991.
 Foreign Member of the Polish Academy of Sciences, 1991.
 Foreign Associate of the Academy of Arts and Sciences of Puerto Rico, 1991.
 Foreign Member of the Ukrainian Academy of Sciences, 1992.
 Honorary Member, Institut Grand Ducal, Luxembourg, 1992.
 Foreign Member of the Royal Society, 1993.
 Honorary Member of the Romanian Academy, 1993.
 Honorary Foreign Member of the Korean Academy of Science and Technology (KAST), 1995.
 Member of the Pontifical Academy of Sciences, 1996.
 Foreign Member of the Third World Academy of Sciences, 1996.
Honorary Member of the Czech Learned Society, 1997.
 Foreign Member of the Academy of Sciences of Turin, 1999.
 Honorary Member of the Royal Irish Academy, Section Science, 1999.
 Foreign Member of the Russian Academy of Sciences, 1999.
 Member of the Académie des Technologies, Institut de France, 2001.
 Honorary Member of the Hungarian Academy of Sciences, 2001.
 Member of the International Academy of Humanism, 2001.
 Corresponding Member of the Slovenian Academy of Sciences and Arts, 2003.
 Foreign Member of the Chinese Academy of Sciences, 2004.
 Honorary Member of the Académie des Sciences Inscriptions et Belles Lettres de Toulouse, 2005.
 Honorary Member of the Real Academia Sevillana de Ciencias, 2005.
 ISA Medal for Science, Institute of Advanced Studies, University of Bologna, 2006
 Associate Member of the Académie Royale des Sciences, des lettres et des beaux-arts de Belgique, 2009.
 Charter Fellow, National Academy of Inventors, 2012.
 The Academy of Sciences of Hong Kong, 2015.
 Senior Member of the Hong Kong Academy of Sciences, 2015.
 Foreign Corresponding Member, Real Academia de Ciencias de Espana, 2018.
 Foreign Member of Polish Academy of Arts and Sciences, 2022.

Čestné členstvá v učených spoločnostiach / Honorary member of Learned Societies

Honorary Member of the Union des Physiciens, 1986.
 Honorary Fellow of the Royal Society of Chemistry (Great-Britain), 1987.

Honorary Fellow of Fondation de la Maison de la Chimie, *1989*.
 Honorary Member of the Gesellschaft Deutscher Chemiker, *1997*.
 Honorary Fellow of the Institute of Physics, *1999*.
 Honorary Fellow of the Singapore Institute of Chemistry, *2001*.
 Honorary Member of the Chemical Society of Japan (CSJ), *2002*.
 Honorary Fellow of the Chemical Research Society of India, *2002*.
 Honorary Member of the World Innovation Foundation, *2003*.
 AAAS Fellow, American Association for the Advancement of Science, *2003*.
 Honorary Fellowship of IChem^E Institution of Chemical Engineers, *2003*.
 President of the Academia Bibliotheca Alexandrinae, *2004*.
 Member of the Gesellschaft Österreichischer Chemiker, *2004*.
 Honorary Member of the Société Française de Chimie, *2005*.
 Honorary Membership of the Chemistry Society of Romania, *2008*.
 Honorary Member of the Société Philomathique de Paris, *2013*.
 Honorary Fellowship or the Indian Chemical Society, *2020*.

Ocenenia / Decorations

Chevalier dans l'Ordre National du Mérite, *1976*; Chevalier dans l'ordre de la Légion d'Honneur, *1983*; Officier dans l'ordre de la Légion d'Honneur, *1988*; Chevalier dans l'Ordre des Palmes Académiques, *1989*; Member of the Order "Pour le Mérite" für Wissenschaften und Künste (RFA), *1990*; Officier dans l'Ordre National du Mérite, *1993*; Commandeur dans l'Ordre de la Légion d'Honneur, *1996*; Österreichisches Ehrenkreuz für Wissenschaft und Kunst, Erste Klasse, *2001* ; High Officer in the Order of Cultural Merit of Romania, section Scientific Research ; *2004* ; Grosses Verdienstkreuz mit Stern der Bundesrepublik Deutschland, *2009* ; Grand Officier de la Légion d'Honneur, *2014* ; Officer of the Order of Merit of the Republic of Poland, *2015* ; The Order of the Rising Sun, Gold and Silver Star of Japan, *2019*.

3. Vedecký a odborný profil / Scientific and professional profile

Vedecká činnost / Scientific Work

1023 publications; 3 books:

1) *“Chemia Supramolekularna”*,
Collection of publications by J.-M. LEHN, organised and translated into Polish under the direction of Janusz Lipkowski, Institute of Physical Chemistry, Polish Academy of Sciences, 1985.

2) B. DIETRICH, P. VIOUT, J.-M. LEHN,
“Aspects de la chimie des composés macrocycliques”,
InterEditions/Editions du CNRS, 1991.

- English Version: *“Macrocyclic Chemistry – Aspects of Organic and Inorganic Supramolecular Chemistry”*, VCH, Weinheim, 1993.

3) J.-M. LEHN,
“Supramolecular Chemistry – Concepts and Perspectives”,
VCH, 1995.

- French Version : *“La chimie supramoléculaire : Concepts et perspectives”*,
Translated from the English original text by A. Pousse, De Boeck Université, Bruxelles, 1997.

- Portuguese Version, translated by M.J. Calhorda, R. Delgado, A.M. Martins, V. Gageiro Machado, N. Miranda, 2007;

- Japanese Version, translated by Y. Takeuchi, Kagaku Dojin, Tokyo, 1997;

- Russian Version, translated by E.V. Boldyreva ; coeditors, V.V. Vlassov and A.A. Varnek; Nauka, Novosibirsk, 1998;

- Chinese Version, translated by X. Shen, Peking University, Beijing, 2002.

FIELDS OF RESEARCH OVER THE YEARS

Theoretical Organic Chemistry: Ab initio conformational analysis: computation of nitrogen and phosphine inversion, of the electronic structure of hydrocarbons, of stereoelectronic effects on chemical reactivity; theoretical studies of molecular receptors and recognition processes.

Dynamic Nuclear Magnetic Resonance: Studies of conformational rate processes, internal rotation and nitrogen inversion. Molecular Dynamics and Liquid Structure from Nuclear Magnetic Relaxation data. Nuclear Quadrupole Resonance.

SUPRAMOLECULAR CHEMISTRY:

Cryptates: Design, synthesis and properties of ligands forming stable and selective inclusion complexes with metal ions; di- and poly-nuclear cryptates; bioinorganic models; photoactive and electroactive cryptates; cluster cryptates; energy and electron transfer processes.

Molecular Recognition, Molecular Receptors and Coreceptors: Design, synthesis and properties of macropolycyclic complexing agents binding selectively one or several molecular substrates: metalloreceptors; photoactive receptors; cyclointercalands.

Anion Coordination Chemistry: Anion cryptates; receptors and coreceptors for anionic substrates; selective complexation of organic, inorganic and biological anions.

Supramolecular Catalysis: Design and properties of molecular catalysts performing a reaction on bound substrate species; enzyme models; cocatalysis.

Transport Processes: Design of selective carriers; transport of anions, cations and molecules; thermodynamic and kinetic properties; transport regulation; coupling to chemical potentials (protons, electrons) and to light.

Supramolecular Materials: Recognition materials, supramolecular polymers, liquid crystals, vesicles, inorganic materials.

Chemionics: Molecular Photonic, Electronic and Ionic Devices: Photoactive and electroactive cryptates; energy and electron transfer processes; light conversion; photo-antenna; ion transfer; molecular and ionic switching and amplifying processes; molecular protonics.

Semiochemistry: Generation and processing of optical, electronic and ionic chemical signals; ion detection; ion pulses; non-linear optical properties.

Photochemistry and Solar Energy Storage: Photochemical activation of small molecules by means of transition metal complexes; photogeneration of hydrogen and oxygen; water photolysis; photoreduction of CO₂; design of photoinduced charge separation systems.

Structural and Dynamic Studies by Multinuclear NMR on supramolecular complexes (in collaboration with the NMR Laboratory).

Bioorganic Chemistry and Biological Applications: Models of biological receptors, of enzymes and of biological transport processes; immunological labelling agents, selective nucleic acid reagents, helical and metallo-nucleic complexes; artificial gene transfer vectors.

Allosteric Effectors of Hemoglobin: Oxygen fixation to haemoglobin; modified red blood cells; biological effects (cardiovascular, oncological).

SELF-ASSEMBLY AND SELF-ORGANIZATION

Programmed Chemical Systems: Design of systems generating given supramolecular architectures by molecular recognition directed spontaneous assembly of the components; self-organization by design and with selection; hydrogen bonding and coordination interactions; multiple expression of molecular information.

Self-Organization of Organic Architectures: Generation of hydrogen bonding entities; hydrogen bonding patterns; polymolecular assemblies, recognition vesicles, recosomes; structural codons and molecular motions.

Self-Organization of Inorganic Architectures: Double and multiple helicates; grid-type architectures; multicomponent self-assembly; nanocylinders; physicochemical properties of multinuclear arrays.

CONSTITUTIONAL DYNAMIC CHEMISTRY – ADAPTIVE CHEMISTRY

Dynamic Covalent Chemistry: Dynamic combinatorial libraries; constitutional dynamic processes; reversible chemical reactions, implementation, efficiency and selectivity; multiple dynamic processes.

Biological Systems: generation and identification of substrates for receptors and enzyme inhibitors; dynamic deconvolution.

Dynamic Materials: Dynamers, dynamic polymers; modulation of properties by component recombination (optical, mechanical, hydrophobic features); biodynamers (glycodynamers, dynamic nucleic acid analogs); controlled release materials.

Adaptation and Selection: Component selection in equilibrium systems; effect of physical and chemical triggers (temperature, electric field, protons, ions, medium, etc.); constituent adaptation in switching processes; adaptation in self-organization; coupling to non-equilibrium processes.

Dynamic Networks: agonistic and antagonistic relationships in constitutional dynamic libraries; responsive systems; agonist amplification.

MAJOR ACTIVITIES WITH THE PRIVATE SECTOR:

Member of the Board of Directors of:

- Ciba-Geigy (Verwaltungsrat) until the merger with Sandoz to form Novartis. Thereafter,
- Ciba Specialty Chemicals, until the merger with BASF in 2009.
- Hoechst AG (Aufsichtsrat) until the merger with Rhône-Poulenc to form Aventis.
- Bruker France (Conseil de Surveillance, until 2010).

Science Advisor/Advisory Boards:

- Rhône-Poulenc
- Aventis (until merger with Sanofi).
- Reliance Innovation Council, Mumbai (2007-2017).
- Sanofi-Aventis (2010-2011).
- Novartis Venture Fund.
- and numerous small(er) companies

Co-founder of:

- Therascope (sold).
- Normoxys
- AC Immune
- InCellArt
- ALSaTECH

4. Spolupráca profesora J.-M. Lehna so Slovenskou technickou univerzitou v Bratislave / The co-operation of professor J.-M. Lehn with Slovak University of Technology

Spolupráca prof. Jean-Marie Lehna s FCHPT STU v Bratislave sa začala po roku 1995, keď navštívil Slovensko a Bratislavu v rámci cyklu prednášok “ Ciba Lectures “ organizovanými Slovenskou chemickou spoločnosťou a iniciovanými riaditeľom pre Global Corporate Research Ciba-Geigy a Novartis; členom rozšíreného Executive Committee Ciba-Geigy, Basel – prof. Danielom Bellušom, absolventom CHTF SVŠT. Prof. J.-M. Lehn navštívil Bratislavu ako tretí nositeľ Nobelovej ceny, krátko navštívil FCHPT Vďaka jeho podpore v rozhodovacom procese pri premiestnení časopisov darovaných nemeckou chemickou spoločnosťou GDCh do vtedajšieho ŠIS CHTF, sa získali nesmierne cenné zbierky časopisov.

Kontakty s prof. J.-M. Lehnom pokračovali na viacerých vrcholných podujatiach, ako napr. 150. výročie založenia Francúzskej chemickej spoločnosti SCF, konferenciách (Madrid, Gdansk), ale hlavne na novozaložených zjazdoch Európskej chemickej spoločnosti EuCheMS od roku 2005 (Praha, Liverpool, Budapešť), kde bol jedným z magnetov podujatia. Kontakty vyvrcholili jeho pozvaním na zjazd chemikov v roku 2015. Pri tejto príležitosti mu Slovenská chemická spoločnosť (sídliaca na FCHPT) udelila Zlatú medailu a zároveň čestnou medailou SAV Dionýza Ilkoviča.

Prof. J.-M. Lehn prisľúbil predniesť prednášku na 19. Blue Danube Symposium on Heterocyclic Chemistry v auguste 2022, ktorú organizovalo Oddelenie organickej chémie Ústavu organickej chémie, katalýzy a petrochémie STU v Bratislave. Zo zdravotných dôvodov sa však podujatia nezúčastnil. Prof. J.-M. Lehn participoval v návrhu programu Internacionalizácie štúdia na STU v roku 2016, projekt STU však nezískala.

5. Záver / Conclusion

Prof. Jean-Marie Lehn je jedným z popredných vedcov v oblasti chémie a príbuzných vied. Jeho aktivity, ako je vidieť z predchádzajúceho výpočtu sú multiodborové.

Čestný titul „doctor honoris causa“ odporúčame udeliť prof. Jean-Marie Lehnovi za jeho mimoriadny vedecký príspevok v oblastiach teoretickej organickej chémie, dynamickej nukleárnej magnetickej rezonancie, supramolekulárnej chémie, samousporiadania a samoorganizácie ako aj konštitučnej dynamickej chémie – adaptívnej chémie.

Prof. Jean-Marie Lehn výrazne prispeje k šíreniu dobrého mena Slovenskej technickej univerzity vo svete.

6. Stanovisko VR FCHPT STU v Bratislave zo dňa 04.10.2022:

Vedecká rada FCHPT STU v Bratislave **súhlasí** s návrhom na udelenie titulu doctor honoris causa (Dr.h.c.) profesorovi Bernardovi L. Feringovi

Priebeh tajného hlasovania:

Počet členov vedeckej rady oprávnených hlasovať	24
Z toho 2/3	16
Počet prítomných členov VR oprávnených hlasovať	20
Počet potrebných kladných hlasov na schválenie.	11
Počet hlasov za	20
Počet hlasov proti.....	0



Zdržalo sa hlasovania	0
Počet neplatných hlasov:	0

V Bratislave 7.10.2022

prof. Ing. Anton Gatial, DrSc.
dekan FCHPT STU

3. Scientific and professional profile

Prof. Jean-Marie Lehn is one of the world's leading chemistry and related sciences scientists. His research activities are multifaceted.

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Dynamic Covalent Chemistry: Dynamic combinatorial libraries; constitutional dynamic processes; reversible chemical reactions, implementation, efficiency and selectivity; multiple dynamic processes.

Biological Systems: generation and identification of substrates for receptors and enzyme inhibitors; dynamic deconvolution.

Dynamic Materials: Dynamers, dynamic polymers; modulation of properties by component recombination (optical, mechanical, hydrophobic features); biodynamers (glycodynamers, dynamic nucleic acid analogs); controlled release materials.

Adaptation and Selection: Component selection in equilibrium systems; effect of physical and chemical triggers (temperature, electric field, protons, ions, medium, etc.); constituent adaptation in switching processes; adaptation in self-organization; coupling to non-equilibrium processes.

Dynamic Networks: agonistic and antagonistic relationships in constitutional dynamic libraries; responsive systems; agonist amplification.

4. The co-operation of Professor J. – M. Lehn with the Slovak Technical University in Bratislava

The cooperation of Professor Jean-Marie Lehn with FCHFT STU in Bratislava started after 1995, when he visited Slovakia and Bratislava in the frame of the lecture cycle “Ciba Lectures“ organized by Slovak Chemical Society and initiated by the director for Global Corporate Research Ciba-Geigy and Novartis; the number of wider Executive Committee Ciba-Geigy, Basel – by professor Daniel Belluš, graduate at CHTF SVŠT (Dr.h.c. awarded by STU in 1991). Prof. J.-M. Lehn visited Bratislava like the third Nobel prize laureate, also shortly visited FCHPT, where he has been interested in the area of the Study and information center of CHTF (and also substantiation of the Periodical Table of elements before faculty building) and thank his support in the decision-making process of the transportation of the chemical journals gifted by the German Chemical Society GDCh into ŠIS CHTF. Faculty obtained by this way an extremely valuable collection of chemical journals.

Lecture of professor Lehn has been in Aula Maxima of the University Commeniana and for many participants rests in memory like scientific brilliancy and excellent pedagogical art of this scientist. Fully occupied aula applauded after his presentation - simply, it was a holiday for Slovak chemists. Professor Lehn has been awarded by this occasion by the Gold Medal of Comenius University.

Contacts with professor J.-M. Lehn continued on many topic undertakings, e.g., 150th anniversary of the French Chemical Society SCF, conferences (Madrid, Gdansk), but mainly at newly founded congresses of the European Association of Chemical and Molecular Sciences EuCheMS starting 2005 (Praha, Liverpool, Budapest), where he was one of the magnets of the congresses.

Contacts culminated with his invitation to the Congress of Slovak and Czech chemists in 2015. On this occasion, the Slovak Chemical Society (resident at FChFT) awarded him a Gold medal and the Slovak Academy of Sciences by Honorary medal of Dionýz Ilkovič.

Prof. J.-M. Lehn promised to present a lecture at the 19th Blue Danube Symposium on Heterocyclic Chemistry in August 2022, organized by the Department of Organic Chemistry of the Institute of Organic Chemistry, Catalysis and Petrochemistry of the STU Bratislava. From

health reason he did not participated. Prof. J.-M. Lehn agreed to participate in the proposal of the program of Internationalisation of the study on STU in 2016, but the project STU did not obtained.

5. Conclusion

Professor Jean-Marie Lehn is one of the leading scientists in the area of chemistry and the related sciences. His activities, as visible from the previous list, are multidivisional.

Honorary title „doctor honoris causa” is recommended to award to professor Jean-Marie Lehn for his extraordinary scientific contribution in the areas of theoretical organic chemistry, dynamic nukleárnej magnetic resonance, supramolecular chemistry, self-assembly, and self-organization, as well as constitutional dynamic chemistry – adaptive chemistry.

Professor Jean-Marie Lehn markedly contributes to the propagation of the reputation of the Slovak University of Technology in the world.