

INTERNATIONAL HUMIC SUBSTANCES SOCIETY



ELECTIONS 2022

Positions to be elected are:

- # Vice President
- # Board Member

Candidates for Vice President

- Deborah Pinheiro Dick, Brazil
- Gerd Gleixner, Germany

Candidates for Board Member

- Maria Jerzykiewicz, Poland
- Miloslav Pekař, Czech Republic

Vice President Candidate

Deborah Pinheiro Dick

Federal University of Rio Grande do Sul (UFRGS),
Institute of Chemistry, Department of Physical-
Chemistry, Avenida Bento Gonçalves, 9500. CEP
91501-970, Porto Alegre, RS, Brazil.

Email: deborah.dick@ufrgs.br



Education

1988-1993- PhD in Agronomy-Soil Chemistry and Mineralogy. Lehrstuhl für Bodenkunde.
Technische Universität München, Freising, Germany. Advisor: Udo Schwertmann.
1983-1986 Master of Science in Agronomy- Soil Chemistry and Mineralogy, Agronomy Faculty,
UFRGS, Brazil. Advisor: Nestor Kämpf
1978-1982 Bachelor of Science in Chemistry, Institute of Chemistry, UFRGS, Brazil

Employment

1993 – present. Professor at the Department of Physical Chemistry, Institute of Chemistry, and
Lecturer and advisor in the Graduation Program of Soil Science, UFRGS, Brazil.
1986 – 1993. Assistant Professor at the Department of Physical Chemistry, Institute of
Chemistry, UFRGS, Brazil.

Research interests

Generally:

Soil Chemistry. Organic matter and Humic substances reactions and properties.

Specifically:

- Carbon sequestration, organic matter dynamics, and humic substances (HS) in different environments (subtropical, tropical and Antarctic soils) and different soil uses (forest, pasture, agriculture) and management (no-tillage and vegetation burning),
- Organic matter and humic fractions characteristics (chemical, thermo-gravimetric, pyrolytic and spectroscopic methods) as a function of environment and formation;
- Humic fractions from biochar, composts, and mineral coal,
- Organic matter interactions with pesticides and minerals in tropical and subtropical environments; accelerated degradation of pesticides in adapted soils from subtropical and tropical environments: Dissipation mechanisms of pesticides applied as slow-release formulations.
- Composting of agronomic wastes; fertilizer potential, greenhouse gases emissions, and effect of biochar.

Publications

- Main author and/or co-author of 9 chapters on textbooks about organic matter and HS dynamics and its characterization and of approximately 90 scientific papers.

Mentoring and teaching

- Completed Supervisions: 19 Ph.D. graduates, 23 M.S. graduates and 53 undergraduate students on research projects, and 2 post-doctoral;
-Current Supervisions: four Ph.D. students and one M.S. student;

- Lectures in Physical Chemistry for undergraduate courses (Chemistry and Chemical, Material Sciences and Metallurgical Engineering); Lectures in Soil Chemistry and Advanced Topics in Organic Matter (Dynamics, composition, reactions with pesticides) for graduation course in Soil Science

Membership

International Humic Substances Society (since 1996) and Brazilian Chapter of the IHSS; Brazilian Society of Soil Science and International Society of Soil Science; Brazilian Society of Chemistry. National coordinator of the Brazilian Chapter of the IHSS since 2007.

IHSS activities and Candidacy statement

I first started working with HS in 1993 while conducting a research project related to composting of industrial sludge from a celluloses factory. Since then I have been involved in different kinds of HS-related projects that comprised from their dynamics in the environment to their applications including characterization by different methods.

I joined the IHSS in 1996 when attending the 8th IHSS Conference in Wroclaw, Poland, and have been an active member since then. Thereafter, I attended almost all IHSS International Meetings, and, also, participated in some IHSS initiatives. Hence, I accompanied the improvements that our society has been able to implement on different fronts and I am willing to continue with work to the society's progress in the future.

From my own experience, I realized that the IHSS meetings have the potential to serve as a catalyst to new international collaborations by promoting interaction and exchange among established researchers as well as newcomers. Moreover, institutional links are created between institutions with high-level laboratories from all over the world.

In 1997 I joined the IHSS Brazilian Chapter at the II Brazilian Meeting of the IHSS just after its foundation in 1996. Since then I have participated actively in all Brazilian IHSS Meetings by not only presenting works and/or giving conferences but also in organizing issues, inviting researchers to come to Brazil, and collaborating in the organization of national IHSS meetings. In 2007, during the VII National Meeting in Florianópolis, I was elected the National coordinator of the Brazilian Chapter of the IHSS, following the term of Dr. Ladislau Martin-Neto, EMBRAPA-CNPDI, Brazil.

In 2009, 2011, 2013, 2015, 2017, and 2019, I co-chaired the Brazilian Meetings of the IHSS (from VIII to XIII Brazilian Meetings of the Humic Substances). On average these were attended by 140 participants, including researchers and students from different institutions of Brazil, as well as representatives of private enterprises

In 2012 I was elected a member of the board of the IHSS for a 4 year period, and in 2016 I was re-elected for a subsequent 4 year period. During the time I served the IHSS as a board member I had the opportunity to experience in more detail the challenges and tasks of the society. Among them, the support given by the IHSS to young scientists through the travel and training awards is one of the most relevant ones. Such support is not given by any other international scientific society.

Other relevant challenges and tasks of the IHSS as a scientific society are to reinforce, divulge and stimulate works on:

- the importance of the HS in climate regulation and green-house gases emission mitigation;
- the importance of HS as excellent proxies in evaluating the impact of land use on C sequestration and on natural organic matter (NOM) reactions with anthropogenic products;
- the role of HS as biostimulants and their effect on plant growth and nutrition;
- the use of HS in nanotechnology and its application in different areas of science, and development of new products;
- the application of HS in water treatment and soil remediation.
- the role of HS in Ecosystems services and sustainability.

If elected as Vice-President, I will have the opportunity to continue serving the IHSS, by carrying on the great incentive for HS-NOM research (main topics above mentioned) and by supporting young researchers.

Vice President Candidate

Gerd Gleixner

Max Planck Institute for Biogeochemistry,
Postfach 100164, D-07701, Jena, Germany
Email: gerd.gleixner@bgc-jena.mpg.de



Born
28.3.1963 in Uetersen/Germany

Education

apl. Professor 2010, Organic Geochemistry, Friedrich Schiller University, Jena
Habilitation 2002, Organic Geochemistry, Friedrich Schiller University, Jena
Dr. agr 1994, Biochemistry, Technical University Munich
Studies 1984 – 1996, Agricultural Science, Biotechnology and partly Environmental Science, Technical University of Munich (Dipl. Ing- Arg.)

Employment

Professor Associate (since 2006), Max Planck Institute for Biogeochemistry, Jena
Professor Assistant (1998 - 2005), Max Planck Institute for Biogeochemistry, Jena
Post-Doc 1994 – 1998, Technical University Munich and Scottish Crop Research Institute, GB

Research interests

Generally:

My research group explores key processes in the global biogeochemical cycles at the molecular level. Biomarkers and their isotopic content hold information on the regulation of individual biogeochemical processes. We develop new tools and combine approaches using the natural abundance of stable isotopes, isotope labeling, and stable isotope probing to quantify key processes in the environment.

Specifically:

My research is focused on three major areas of the global element cycles:

Focus 1: Understanding the origin, fate and stability of organic matter in the Critical Zone

Soil organic matter (SOM) remains the largest single unknown in the terrestrial carbon cycle. The group investigates in various projects how abiotic factors like organic matter input, parent material, humidity and temperature as well as biotic factors such as forest stand age, plant and microbial diversity influence SOM storage. The isotopic information of ^{13}C , ^{14}C and ^{15}N of biomarkers from individual compounds and fractions determines the molecular turnover of SOM and suggests high vulnerability of SOM stored in soils. The microbial community is a major driver of various processes related to carbon flow and turnover in soils (Malik et al. 2018, Lange et al. 2019). However, the role of the microbial community in processes related to SOM cycling seems to be equivocal and context dependent (Malik et al. 2018, Mellado-Vazquez et al. 2019, Chowdhury et al. 2020). We consequently developed new molecular biomarkers to better understand the biological component of soil organic matter cycling (Mellado-Vazquez et al. 2019, Ding et al. 2020).

Establishing molecular fingerprints of **dissolved organic matter** (DOM) using ultrahigh-resolution mass spectrometry (HR-MS) (Simon et al. 2018, Hawkes et al. 2020) helped to identify drivers impacting the vulnerability OM stored in soils (Roth et al. 2019). In particular the interaction of plants, soil (micro-) organisms throughout the Critical Zone (CZ) is currently a major research focus the group (projects AquaDiva, Jena Experiment, ATTO). A multi-omics litter decomposition experiment suggested that decomposer communities are initially generalist, but rapidly undergo divergent competitive succession to functionally optimize for litter-specific properties (Benk et al., revised version). During this process DOM profiles emerge, that are highly specific to individual plant species, but vary little between different sites. By evaluating a three-year time series of DOM composition and age from an aquifer well transect, we could show that subsurface ecosystems are majorly shaped by their connectivity to OM sources near the surface (Benk et al. 2019). Seasonal DOM translocation events, such as groundwater recharge, can significantly alter the subsurface metabolome and thereby drive community change and evolution. We identified corresponding natural molecular markers for the fast transport of DOM through soils, which help to retrace surface-subsurface connectivity in the CZ (Benk et al. 2018).

Focus 2: Understanding the role of biodiversity on element cycling

The effects of **biodiversity** on primary productivity, biogeochemical cycles and biotic interactions are the focus of current ecological research. The group's work is focused on the effect of plant diversity on the link between above- and below- ground diversity (Ding et al. 2020) and the link between plant diversity, dissolved organic matter dynamics (Lange et al. 2020). Moreover, we are interested how the interactions of plants and microorganisms are affected climate extremes (Project REGARDS). To study this we use isotopic labeling to trace the how carbon is allocated from plants to soil microorganisms in dependence to drought (Karlowsky et al. 2018a) and how land use change affects the resilience and resistance of this interaction and thus the ecosystem functioning (Karlowsky et al. 2018b). In the long term we investigate the underlying mechanisms of the strengthening of biodiversity-ecosystem-functioning (BEF) relationship addressing the question, how ecosystem services such as nutrient cycling and carbon storage are influenced by plant community diversity and composition (Lange et al. 2019, Lange et al. 2020). And furthermore, if higher plant diversity gives the insurance for a long-term success of the community, even if some individual species of the community may fail (The Jena Experiment and Hainich National Park).

Focus 3: Understanding and reconstructing past climate and vegetation dynamics

Understanding of the links between ecosystems and **past and present climate** will improve our prediction for future climates and how they may affect biodiversity and ecosystem function. This is especially vital for the region of Central Asia where almost two thirds of the world population rely on water supply from the Asian Monsoon System. However, there is still no consensus about the temporal and spatial pattern of precipitation linked to monsoonal variations in the past and the extent to which variations in various regions influenced by the different climate systems (Westerly vs south Asian) have been either synchronous or asynchronous. The group analyzes various biomarkers, such as *n*-alkanes, and sets a special focus on the use of stable hydrogen isotopes of both aquatic and terrestrial biomarkers as a proxy for paleoclimatic reconstructions (Gayantha et al. 2020, Schroeter et al. 2020b). We use fecal sterols and stanols as biomarkers of humans and herbivores to understand the connection between humans and climate in paleoenvironmental context (Schroeter et al. 2020a). Within the BMBF funded joint-project CAHOL - Central Asian Holocene Climate, we applied for the first time quantitative method in an multiproxy approach and identified synchronous and sequential "tipping points" on the Central Asian climate system (Schroeter et al. 2020b). Another ongoing project in Sri Lanka is investigating the behavior of the South Asian Monsoon system and the key forcing factors that influence long term trends (millennial-scale) and abrupt variations of the monsoonal rainfalls

(Gayantha et al. 2020). In collaboration with the Max Planck Institute for the Science of Human History, this project links the responses of pre-historical and historical human dispersal and agricultural practices with the changing patterns of South Asian monsoon during mid and late Holocene.

Publications

Author of about 250 peer reviewed papers, H-Index of 62 and about 13000 total citations.

See full list at: <https://publons.com/researcher/M-8519-2017/>

Mentoring and teaching

Regular lecturing on stable isotopes in the environment

Mentoring of more than 30 PhD students and more than 20 Master and Bachelor thesis

Editorships, service on scientific advisory boards, awards, etc.

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|-------------|--|
| Since 2018 | Speaker of the Vladimir Ivanovich Vernadsky medal committee, EGU |
| Since 2017 | Speaker of the International Max Planck Research School for Global Biogeochemical Cycles |
| 2016 | Thuringian Research Prize for Basic Research |
| Since 2016 | Member of the Vladimir Ivanovich Vernadsky medal committee, EGU |
| Since 2010 | Member of the steering committee of the International Max Planck Research School for Global Biogeochemical Cycles |
| 2008 - 2015 | Member of the Steering Committee on Tibetan Plateau Research |
| 2004 - 2010 | Member of the "Wissenschaftlichen Rat" and of the "Chemisch-physikalisch-technische Sektion" of the Max Planck Society |

Member: AGU, DBG, EGU, GDCH, IHSS, Wasserchemische Gesellschaft,

Candidacy statement

I am willing to stand as a candidate in order to serve the society. My main scientific focus is on the expansion of the reference collection and the education and training of young scientist in organic matter research. My main societal focus is on our joint IHSS Conferences. Find exiting locations and motivated teams, develop innovative topics and invite leading scientist.

Board Member Candidate

Maria Jerzykiewicz

University of Wrocław, Faculty of Chemistry,
F. Joliot-Curie 14 St., 50-383 Wrocław, Poland

Email: maria.jerzykiewicz@chem.uni.wroc.pl



Born 02-06-1969

Education

Master Degree in Chemistry: **Faculty of Chemistry, Wrocław University, 1994**

Philosophy Degree Studies: **Faculty of Chemistry, Wrocław University, Poland, 1994-1998**

Ph. Doctor in Chemistry, University of Wrocław, Wrocław, Poland: 13 October 1998

Dissertation title: *Transformation of organic matter during humification process of wastes, especially free radical processes*

Doctor Habilitatus. 24 September 2013,

Thesis title: *Phenoxy and semiquinone radicals in natural materials and their interactions with metals*

Employment: Faculty of Chemistry, Wrocław University, Poland

from **08 February 1999** **research staff**

from **01 September 2000** **adjunct (tutor position)**

from **24 September 2013** **associated professor**

Research interests

- humic substances structure
- polluted soils humic substances
- interaction of humic substances with pesticides
- spectroscopies: EPR, NMR, FT-IR, UV-Vis

Generally:

Structural studies on Humic Substances and Natural Organic Matter of different origin:

Soil, peat, composts.

Fractionation of Humic Substances.

Application of new analytical techniques.

Specifically:

- Applications of Advanced Electron Paramagnetic Resonance Spectroscopy techniques in studies of Humic Substances and Natural Organic Matter
- Radical reactions in humic substances: metal ions and pH effects on semiquinone radicals structure and concentration
- Stable and transient radicals in Natural Organic Matter

Publications related to humic substances:

Jamroz Elżbieta, **Jerzykiewicz Maria**

Humic fractions as indicators of soil organic matter responses to clear-cutting in mountain and lowland conditions of southwestern Poland

Land Degradation and Development, 2022, **33**, 368-378

Weber Jerzy, Jamroz Elżbieta, Kocowicz Andrzej, Dębicka Magdalena, Bekier Jakub, Ćwieląg-Piasecka Irmina, Ukalska-Jaruga Aleksandra, Mielnik Lilla, Bejger Romualda, **Jerzykiewicz Maria**. Optimized isolation method of humin fraction from mineral soil material. *Environmental Geochemistry and Health*, 2022, 1-10

Medyńska-Juraszek Agnieszka, Álvarez Maria Luisa, Białowiec Andrzej, **Jerzykiewicz Maria** Characterization and sodium cations sorption capacity of chemically modified biochars produced from agricultural and forestry wastes. *Materials*, 2021, **14**, 4714/1-4714/19

Siek Marcin, Paszko Tadeusz, **Jerzykiewicz Maria**, Matysiak Joanna, Wojcieszek Urszula Mechanisms of tebuconazole adsorption in profiles of mineral soils. *Molecules*, 2021, **26**, 4728/1-4728/18

Pospíšilová Lubica, Horáková Eva, Fišera Miroslav, **Jerzykiewicz Maria**, Menšík Ladislav Effect of selected organic materials on soil humic acids chemical properties. *Environmental Research*, 2020, **187**, 109663/1-109663/5

Medyńska-Juraszek Agnieszka, Ćwieląg-Piasecka Irmina, **Jerzykiewicz Maria**, Trynda Justyna. Wheat straw biochar as a specific sorbent of cobalt in soil. *Materials*, 2020, **13**, 2462/1-2462/15

Jerzykiewicz Maria, Barančíková Gabriela, Jamroz Elżbieta, Kałuża-Haladyn Andrea Application of EPR spectroscopy in studies of soils from destroyed forests. *Applied Magnetic Resonance*, 2019, **50**, 753-760

Barančíková Gabriela, **Jerzykiewicz Maria**, Gömöröyová Erika, Tobiašová Erika, Litavec Tadeáš. Changes in forest soil organic matter quality affected by windstorm and wildfire. *Journal of Soils and Sediments*, 2018, **18**, 2738-2747

Ćwieląg-Piasecka Irmina, Medyńska-Juraszek Agnieszka, **Jerzykiewicz Maria**, Dębicka Magdalena, Bekier Jakub, Jamroz Elżbieta, Kawałko Dorota Humic acid and biochar as specific sorbents of pesticides *Journal of Soils and Sediments*, 2018, **18**, 2692-2702

Ćwieląg-Piasecka Irmina, Witwicki Maciej, **Jerzykiewicz Maria**, Jezierska Julia Can carbamates undergo radical oxidation in the soil environment? A case study on carbaryl and carbofuran. *Environmental Science and Technology*, 2017, **51**, 14124-14134

Jerzykiewicz Maria, Witwicki Maciej, Jezierska Julia pH-dependent formation of Hg(II)-semiquinone complexes from natural phenols. *Chemosphere*, 2015, **138**, 233-238.

Witwicki Maciej, **Jerzykiewicz Maria**, Ozarowski Andrzej Understanding natural semiquinone radicals—multifrequency EPR and relativistic DFT studies of the structure of Hg(II) complexes. *Chemosphere*, 2015, **119**, 479-484.

Jerzykiewicz Maria

The effect of Hg(II) ions on the free radicals of humic substances and their model compounds. *Chemosphere*, 2013, **92**, 445-450.

Jerzykiewicz Maria

Humic and hmatomelaninic acids interaction with lanthanide ions. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*, 2012, **96**, 127-131.

Drosos Marios, **Jerzykiewicz Maria**, Louloudi Maria, Deligiannakis Yiannis

Progress towards synthetic modelling of humic acid: peering into the physicochemical polymerization mechanism. *Colloids and Surfaces A-Physicochemical and Engineering Aspects*, 2011, **389**, 254-265.

Jerzykiewicz Maria, Ćwieląg-Piasecka Irmına, Witwicki Maciej, Jezierski Adam

EPR spin trapping and DFT studies on structure of active antioxidants in bioglycerol. *Chemical Physics Letters*, 2010, **497**, 135-141.

Drosos Marios, **Jerzykiewicz Maria**, Deligiannakis Yiannis

H-binding groups in lignite vs.soil humic acids: NICA-Donnan and spectroscopic parameters. *Journal of Colloid and Interface Science*, 2009, **332**, 78-84.

Witwicki Maciej, **Jerzykiewicz Maria**, Jaszewski Adrian R., Jezierska Julia, Ożarowski Andrzej

Influence of Pb(II) ions on the EPR properties of the semiquinone radicals of humic acids and model compounds: high field EPR and relativistic DFT studies. *Journal of Physical Chemistry A*, 2009, **113**, 14115-14122.

Witwicki Maciej, Jaszewski Adrian R., Jezierska Julia, **Jerzykiewicz Maria**, Jezierski Adam

The pH-induced shift in theg-tensor components of semiquinone-type radicals in humic acids-DFT and EPR studies. *Chemical Physics Letters*, 2008, **462**, 300-306.

Giannakopoulos E., Christoforidis K. C., Tsipis A., **Jerzykiewicz Maria**, Deligiannakis Yiannis

Influence of Pb(II) on the radical properties of humic substances and model compounds. *Journal of Physical Chemistry A*, 2005, **109**, 2223-2232.

Provenzano Maria R., D'Orazio Valeria, **Jerzykiewicz Maria**, Senesi Nicola

Fluorescence behaviour of Zn and Ni complexes of humic acids from different sources. *Chemosphere*, 2004, **55**, 885-892.

Jerzykiewicz Maria

Formation of new radicals in humic acids upon interaction Pb(II) ions. *Geoderma*, 2004, **122**, 305-309.

Jerzykiewicz Maria, Jezierski Adam, Czechowski Franciszek, Drozd Jerzy

Influence of metal ions binding on free radical concentration in humic acids. A quantitative electron paramagnetic resonance study.Organic Geochemistry, 2002, **33**, 265-268.

Jezierski Adam, Czechowski Franciszek, **Jerzykiewicz Maria**, Golonka Iwona, Drozd Jerzy, Bylińska Elżbieta, Chen Yona, Seaward M. R. D.

Quantitative EPR study on free radicals in the natural polyphenols interacting with metal ions and other environmental pollutants. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*, 2002, **58**, 1293-1300.

Jezierski Adam, Czechowski Franciszek, **Jerzykiewicz Maria**, Chen Yona, Drozd Jerzy

Electron parametric resonance (EPR) studies on stable and transient radicals in humic acids from

compost, soil, peat and brown coal. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*, 2000, **56**, 379-385.

Jezierski Adam, Czechowski Franciszek, **Jerzykiewicz Maria**, Drozd Jerzy
EPR investigations of structure of humic acids from compost, soil, peat and soft brown coal upon oxidation and metal uptake. *Applied Magnetic Resonance*, 2000, **18**, 127-136.

Jerzykiewicz Maria, Drozd Jerzy, Jezierski Adam
Organic radicals and paramagnetic metal complexes in municipal solid waste composts. An EPR and chemical study. *Chemosphere*, 1999, **39**, 253-268.

Mentoring and teaching

- Environmental Monitoring, lecture and laboratory
- Electron Paramagnetic Resonance laboratory for Environmental Chemistry students.
- Electron Paramagnetic Resonance laboratory for Medical Chemistry students.
- Seminar and laboratory of general chemistry
- Seminar and laboratory of inorganic chemistry
- Laboratory classes on organic chemistry for biology and microbiology students
- Laboratory classes on analytical chemistry

Promoting about 40 master's theses.

Membership

IHSS Polish chapter coordinator since 2015

IHSS Polish chapter secretary 2007 – 2015

IHSS Travel Award September 1998:

Electron paramagnetic resonance (EPR) studies on compost maturation and the stable radicals in humic acids from compost, soil and soft brown coal

Foreign Stays & Visits

1995 - six months in the group of prof. Nicola Senesi. Università di Bari Aldo Moro, Dip.to di Scienze del Suolo, della Pianta e degli Alimenti

2003 - 9 months postdoc, Dr Yannis Papastilianou, Agricultural Research Institute, Cyprus

2004 – 1 month Demetris Lordos Environmental Energy LTD, Cyprus

Candidacy statement

I am willing to stand as a candidate for the position of Board Member for the IHSS 2022 Elections

Board Member Candidate

Miloslav Pekař

Brno University of Technology, Faculty of Chemistry,

Purkyňova 118, 612 00, Brno, Czech Republic

Email: pekar@fch.vut.cz



Born 23/07/1962

Education

- 1980-1985 Institute of Chemical Technology Prague, Faculty of Chemical Technology, graduate study
1986-1989 Institute of Chemical Technology Prague, Faculty of Chemical Technology, postgraduate study
1985 Ing. (MSc.), organic technology
1991 CSc. (PhD.), technical chemistry

Employment

- 1989-1990 research scientist Institute of Chemical Process Fundamentals of Czechoslovak Academy of Sciences, Prague, dept. of heterogenous processes
1990-1992 chief chemist, Triga CS, Ltd., regional agricultural laboratory Turnov
1992-1994 researcher, Kaučuk comp., Synthetic Rubber Research Institute Kralupy nad Vltavou
since 1994 Assist. Prof. (1994-1999), Assoc. Prof. (1999-2009), Prof. (since 2009), Brno University of Technology, Faculty of Chemistry

Research interests

Generally:

applied physical and colloid chemistry, particularly thermodynamics, kinetics, and rheology

Specifically:

nonenergetical applications of lignite, humic substances; physical chemistry of polysaccharides, particularly hyaluronan, and their applications; relationships between non-equilibrium thermodynamics and kinetics

Publications

Author or co-author of one monograph, 7 book chapters, more than 100 peer reviewed papers, about 300 conference contributions.

Mentoring and teaching

lectures and tutorial: physical chemistry, applied colloid chemistry; supervision of bachelor, master, and PhD theses

Membership

Czech Chemical Society

American Chemical Society

International Humic Substances Society (national coordinator)

Candidacy statement

I am willing to stand as a candidate for the position of a Board Member for the IHSS 2022 Election. I want to serve as a partner for the President and other board members in fulfilling both general duties and duties delegated by the General Assembly, including the participation in Board meetings. More specifically, I am willing to support IHSS activities in the area of practical applications of humic products and cooperation with industry, to promote the conservation of the humic substances concept in relevant sciences together with clarifying its meaning (“definition”) and to contribute with a physico-chemical view on humic substances and natural organic matter.

The Nominations Committee included Patrick Brenzonik (USA) (Chair), Elsbieta Jamroz (Poland), Gudrun Abbt Braun (Germany) and Teodoro Miano (Italy).

The Board thanks the members for their work in finding outstanding candidates for the elections and supervising the election process. The Board would also like to thank all of the candidates for running for a position.

According to the Bylaws of the IHSS, Article III, section 3

,.... the newly elected officers shall assume their duties on the first day of the next International Meeting following their election.

***Marios Drosos
IHSS Secretary***