

# INTERNATIONAL HUMIC SUBSTANCES SOCIETY

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## NEWSLETTER

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Number 48

Summer 2012

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Dear IHSS members,

It is my great pleasure to forward this Newsletter to all of you. It contains plenty of relevant information about our IHSS and I strongly recommend to read it!

First of all I would like to thank very much the IHSS Elections Nomination Committee, Antonio Mangrich (chair), Elzbieta Jamroz, Jose Antonio González-Pérez and William Horwath, for their work in conducting the elections for the new IHSS Board Members. Once again, the majority of IHSS members voted by online ballot and the online election procedure showed to be very practical and effective. Again, using online voting made it a very fair election.

So it is my pleasure to welcome Dr. Mike Perdue (USA), as Vice-President/President elected, Dr. Heike Knicker (Spain/Germany), as Secretary, and Dr. Deborah Dick (Brazil), as Board Member and to congratulate them on their election. They will start their term as Board Members this September during our XVI IHSS Meeting in Hangzhou, China. I also would like to thank all other candidates in this election for their willingness to engage themselves in our society. Their participation was very important and is very much appreciated.

Another relevant topic is the organization of the XVI IHSS Meeting in China. The chairman, Prof Jianming Xu, and his group are working very hard, and organization is moving very well. Several

keynote speakers are confirmed, as can be seen on the website of the meeting and in this Newsletter. Also, we are very satisfied to inform you that 18 students from different continents were selected, in a competitive process, for a travel award to participate to our meeting in China. We invite all interested people to join us in this meeting. We will have for sure an excellent meeting, including a special session celebrating 30 years of IHSS!

Finally I call your attention to the new IHSS logo. The Board decided to change it to be strictly in line with our current Society motto: "To Advance the Knowledge and Research of Natural Organic Matter in Soil and Water." Another relevant fact is the decision about improvements on our website ([www.humicsubstances.org](http://www.humicsubstances.org)) with a new webmaster, Dr. Claudio Zaccone from Italy, starting his activities.

So I hope you can enjoy our NL, and your participation in IHSS activities is very important!

Warmest regards  
Ladislau Martin-Neto  
President of IHSS

## RESULTS OF THE ELECTIONS

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The Nomination Committee has announced the results of the elections. As done in the years before, the International Humic Substances Society offered on-line balloting. Balloting was open until March 31, 2012. 565 members were eligible to vote, 289 members took part in the balloting.

Positions to be elected were: Vice-President, Board Member, and Secretary

Results:

**Vice President**

**Dr. E. Michael Perdue**

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**Secretary****Dr. Heike Knicker**

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Members of the committee have been: Antonio Salvio Mangrich of the Universidade Federal do Paraná, Departamento de Química (Brazil), Elzbieta Jamroz of the Wrocław University of Environmental and Life Sciences, Institute of Soil Science and Environmental Protection (Poland), Jose Gonzalez-Perez from the Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS-CSIC), Seville (Spain), and William Horwath from the University of California-Davis, Davis/CA (USA). Antonio Mangrich was acting as chairperson.

*Gudrun Abbt-Braun*  
*Secretary*

## TRAVEL SUPPORT AWARD

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The IHSS travel support award committee selected 18 graduate students to present their work and participate in the next IHSS meeting in China.

The following graduate students have been selected. A detailed report will be presented by the chairperson of the committee Dr. T. Miano in the next newsletter.

### Congratulations to everyone for their excellent proposals!

Name		Country	Working Institution	Supervisor
Abdelrahman	Hamada	Egypt	University of Bari, Italy	Miano; Coccozza; Olk
Chang	Rung-Rung	Taiwan	National Chung-Hsing University, Taiwan	Yu-Min Tzou
Gao	Yuan	USA	University of Washington, USA	Korshin
Jiang	Tao	China	Southwest University, China	Wei
Kalina	Michal	Czech R.	Brno University of Tech., Czech Republic	Klucakova
Kloster	Nanci	Argentina	University of Bahia Blanca, Argentina	Avena
Marques Gomes	Vinicius	Brazil	State University Sao Paulo, Araraquara	dos Santos
McKay	Garret	USA	California State University, Long Beach, USA	Fernando Rosario-Ortiz
Velasco Molina	Marta	Spain	IRNAS-CSIC, Sevilla, Spain	González-Vila
Mylotte	Rosaleen	Ireland	University Limerick, Ireland	Hayes
Olaetxea	Maite	Spain	University Navarra, Spain	Garcia-Mina
Pantano	Glaucia	Brazil	University Estadual Paulista, S. Jose do Rio Preto, Brazil	Moreira
Pezzolla	Daniela	Italy	University Perugia, Italy	Gigliotti
Purmalis	Oskars	Latvia	University. Latvia, Latvia	Klavins
Samsoni-Todorova	Olena	Ukraine	Ukrainian Nat. Acad. Science, Kiev, Ukraine	Klymenko
Tadini	Amanda M.	Brazil	University Estadual Paulista, S. Jose do Rio Preto, Brazil	Bisinoti
Tarasova	Anna	Russia	Siberian Fed. University, Krasnoyarsk, Russia	Kudryasheva
Vujinovic	Tihana	Croatia/Italy	University of Udine, Italy	De Nobili

## WEBMASTER

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Dr. Claudio Zaccone from Italy has started his activities as our new webmaster.

Claudio Zaccone is Researcher in Agricultural Chemistry at the Department of Agro-Environmental Sciences, Chemistry and Plant Protection (Di.S.A.C.D.), University of Foggia, Italy.

His main research interests include: i) the fate of organic matter in soils and sediments, ii) the molecular and functional characterization of fresh and humified organic matter in soils and sediments, iii) the interactions of organic matter with organic and inorganic pollutants, iv) the trace elements geochemistry in peat soils, and v) the utilization of ombrotrophic bogs as archive of environmental changes.

He is the author or co-author of several publications on these topics published in national and international journals and conference proceedings, reviewer for several ISI journals, and member of the Editorial Board of E-Journal of Chemistry.

He is member of the following scientific societies: International Humic Substances Society (IHSS), International Union of Soil Sciences (IUSS), European Geosciences Union (EGU), Italian Society of Soil Science (SISS), and Italian Society of Agricultural Chemistry (SICA). He is also Chair of the Soil Chemistry Sub-division of the EGU, Web Officer of the IHSS, and secretary of the Commission II (Soil Chemistry) of the SISS.

He has been awarded by the European Geosciences Union (EGU) with the Outstanding Young Scientist Award of the Soil System Sciences Division for the year 2012 .

For any comments, suggestions, and contributions to the improvement of our webpage please contact him.

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NATURAL  
ORGANIC  
MATTER  
RESEARCH

## **IHSS CONFERENCE 2012**



## **The 16th Meeting of the International Humic Substances Society**

### **Functions of Humic Substances in Changing Environment September 9-14, 2012**

**Zijingang Campus of Zhejiang University, Hangzhou, China**

#### **Important information and deadlines**

Early bird rate cut-off:	<b>Before April 30<sup>th</sup>, 2012</b>
Standard rate starts:	<b>July 1<sup>st</sup>, 2012</b>
Final program schedule:	<b>July 15<sup>th</sup>, 2012</b>
Full paper submission:	<b>September 10<sup>th</sup>, 2012</b>

#### **For further information regarding the IHSS16 please contact:**

**Chair:** Prof. Jianming Xu      **E-mail:** [jmxu@zju.edu.cn](mailto:jmxu@zju.edu.cn)  
**Secretary:** Prof. Jianjun Wu      **E-mail:** [wujianjun@zju.edu.cn](mailto:wujianjun@zju.edu.cn)  
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**For further information see webpage:** <http://zjklsp.zju.edu.cn/IHSS2012/index.html>

#### **List of topics and Keynote speakers:**

##### **Formation, structure and characteristics of HS and NOM**

**Donald Sparks**, University of Delaware, USA:

The role of mineral complexation and metal redox coupling in carbon cycling and stabilization

**William Cooper**, State University of Florida, USA:

Correlating bulk optical spectroscopy and ultrahigh resolution mass spectrometry to determine the molecular composition of dissolved organic matter in Northern Peatlands

**Norbert Hertkorn**, German Research Center for Environmental Health, Helmholtz Zentrum Muenchen, Germany:

Elucidating the biogeochemical memory of the oceans by means of high-resolution organic structural spectroscopy

**J.A. González-Pérez**, IRNAS-CSIC, Spain:

Revisiting structural insights provided by analytical pyrolysis about humic substances and related bio-and geopolymers

### **HS/NOM and carbon sequestration**

**Lars Tranvik**, Uppsala University, Sweden:

Sequestration and loss of NOM in inland waters - from micro-scale to global scale

**Deborah Dick**, University Federal do Rio Grande do Sul, Brazil:

Organic matter in subtropical environments: chemical composition and C sequestration

### **HS/NOM and biogeochemical cycling of nutrients**

**Fusuo Zhang**, China Agricultural University, Beijing China:

Improving soil quality in intensive agriculture to ensure food security and environmental quality simultaneously

**Steve Banwart**, University of Sheffield, UK:

Soil carbon flux and biological weathering from nanometric- to planetary-scale

### **HS/NOM and the environmental processes of toxic elements and anthropogenic organics**

**Joseph Pignatello**, The Connecticut Agricultural Experiment Station, USA:

Role of natural organic matter as sorption suppressant in soil

**William C. Koskinen**, USDA-ARS; Dept. Soil, Water, & Climate, University of Minnesota:

Effect of carbonaceous soil amendments on potential mobility of weak acid herbicides in soil

### **HS/NOM, naturally occurring and engineered nanoparticles**

**Baoshan Xing** University of Massachusetts, Amherst, USA:

Environmental processes and biotoxicity of manufactured nanoparticles

**Irina Perminova** Lomonosov Moscow State University, Russia:

Humic substances assisted synthesis of nanoparticles and coatings in the nature and in the lab

### **HS/NOM, biodiversity and ecosystem health**

**Philip Brookes**, Rothamsted Research, UK:

How important is microbial biodiversity in controlling the mineralization of soil organic matter?

**Fengchang Wu**, Chinese Research Academy of Environmental Sciences, Beijing, China:

Natural organic matter and its environmental effects in Chinese lakes

### **HS/NOM in water and water treatment**

**Yona Chen**, The Hebrew University of Jerusalem, Israel:

Water repellency induced by organic matter in treated wastewater infiltration ponds and irrigation

### Characterization and function of biochar in the environment

**Jeffrey Novak**, USDA-ARS, USA:

Designing relevant biochars to revitalize soil quality: Current status and advances

**Renkou Xu**, Institute of Soil Science, CAS, China:

Effect of biochar incorporation on chemical properties of variable charge soils from tropical and subtropical regions

**Michael H.B. Hayes**, University of Limerick, Ireland:

Relationships between biochar and soil humic substances

### Industrial products and application of HS

**Dan Oik**, USDA-ARS, USA:

On-farm evaluation of a humic product in Iowa (U.S.) maize production

## FUTURE CONFERENCES

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### Eurosoil 2012

4<sup>th</sup> International Congress, Soil Science for the Benefit of Mankind and Environment

2<sup>nd</sup> – 6<sup>th</sup> July 2012

Fiera del Levante, Bari, Italy

### EUROSOIL 2012 and ECSSS President:

Nicola Senesi

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# 1<sup>st</sup> National Humic Substance Congress in Turkey

6<sup>th</sup> - 9<sup>th</sup> June, 2012

Culture and Congress Center, Esentepe Campus,

Sakarya University, Sakarya, Turkey

Topics: all fields related with humic substances

Contact: Prof. Dr. Ahmet Tutar

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## BOARD OF DIRECTORS 2012

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Dr. Ronald L. Malcolm †  
Dr. Michael H.B. Hayes  
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### **Distinguished Service Members**

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Dr. Konrad Haider  
Dr. Roger S. Swift  
Dr. Nicola Senesi  
Dr. Fritz H. Frimmel

Dr. C. Edward Clapp

## International Humic Substances Society on the World Wide Web

Our website has been moved.

Go to:

**<http://www.humicsubstances.org/>**

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## IMPRESSUM

Editor: INTERNATIONAL HUMIC SUBSTANCES SOCIETY

NEWSLETTER 48

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