

A Shifting Paradigm  
towards Advanced Materials and  
Energy/Environment Research

# Asia Pacific Biochar Conference 2016



## Biochar Markets

October 19 — 23, 2016  
Chuncheon, Gangwon Province, Korea

## **Greetings from the Organizer,**

Welcome to the 3rd Asia Pacific Biochar Conference 2016 (APBC 2016) : A Shifting Paradigm towards Advanced Materials and Energy/Environment Research (October 19—23, 2016)! We are delighted that you join us in this momentous occasion to share scientific idea and celebrate our achievements on biochar research in Chuncheon, Gangwon Province, Korea. We wish this conference to be memorable and an excellent chance to share new knowledge based on enhancing professional relationships.

Until now, the biochar has been known as a soil amendment for fertility enhancement and contaminants' removal via a wide range application. Initial interest in biochar is to use it as a means of atmospheric CO<sub>2</sub> sequestration in the soils; however, recent developments are seeking for extensive applications in fields of engineering, health care and life sciences, and these strategies would lead to bring large potentials as commercialization. The 3<sup>rd</sup> APBC 2016 is devoted to the expectation of a paradigm shift towards the biochar development for next generation.

The 3<sup>rd</sup> APBC 2016 provides you well-designed opportunities to present your outstanding works to make professional collaboration, followed by first and second APBCs successfully held on the Gold Coast, Australia (May 17—20, 2009) and Kyoto, Japan (September 15-18, 2011), respectively.

Looking forward to seeing you all in Chuncheon, Gangwon Province, Korea!

### **Yong Sik Ok**

Ph.D., Full Professor, Director  
Honorable Ambassador of Gangwon Province  
Korea Biochar Research Center  
Kangwon National University, Korea

## Chairman

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### **Yong Sik Ok**

Ph.D., Full Professor, Director  
Honorable Ambassador of Gangwon Province  
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## Co-Chairs

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### **Hailong Wang**

Ph.D., Professor  
School of Environmental and Resource  
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### **Yoshiyuki Shinogi**

Ph.D., Professor  
Division of Agro-environmental Sciences  
Kyushu University, Japan



### **Longbin Huang**

Ph.D., Principal Research Fellow  
Centre for Mined Land Reclamation  
The University of Queensland, Australia



### **Zueng-Sang Chen**

Ph.D., Chairman, Distinguished Professor  
Working Group on the Remediation of Soil and  
Groundwater Pollution of Asian and  
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Department of Agricultural Chemistry  
National Taiwan University, Taiwan

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Organizer of 2nd Asia Pacific Biochar Conference, Osaka Institute of  
Technology, Japan Biochar Associate, Japan

**Qimei Lin** | Ph.D., Professor

Organizer of 4th International Biochar Congress, College of Resources  
and Environmental Sciences, China Agricultural University, China

## Speakers

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**Prof. Johannes Lehmann**, Cornell University, USA

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**Prof. Stephen Joseph**, University of New South Wales, Australia

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**Prof. Nanthi Bolan**, The University of Newcastle, Australia

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**Prof. Longbin Huang**, The University of Queensland, Australia

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**Prof. Bin Gao**, University of Florida, USA

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**Prof. Yoshiyuki Shinogi**, Kyushu University, Japan

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**Prof. Hailong Wang**, Zhejiang A & F University, China

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**Prof. Scott X. Chang**, University of Alberta, Canada

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**Prof. Zueng-Sang Chen**, National Taiwan University, Taiwan

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**Prof. Filip M. G. Tack**, Ghent University, Belgium

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**Prof. Mark G. Johnson**, U.S. Environmental Protection Agency, USA

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**Prof. Lukas Van Zwieten**, University of New England, Australia

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**Prof. Ming H. Wong**, Hong Kong Institute of Education, Hong Kong

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**Prof. Weixiang Wu**, Zhejiang University, China

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**Prof. Stephen Joseph**, University of New South Wales, Australia

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**Prof. Jeffrey M. Novak**, United States Department of Agriculture, USA

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**Prof. Chenrong Chen**, Griffith University, Australia

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**Prof. Yakov Kuzyakov**, University of Göttingen, Germany

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**Prof. Meththika Vithanage**, National Institute of Fundamental Studies, Sri Lanka

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**Prof. Lukas Van Zwieten**, University of New England, Australia

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**Prof. Deok Hyun Moon**, Chosun University

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**Prof. Seok-Young Oh**, University of Ulsan

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**Prof. Hocheol Song**, Sejong University

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**Prof. Jae Yang**, Kangwon National University

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## Special Issue

The 3<sup>rd</sup> APBC provides you an excellent opportunity to exchange innovative ideas in the global network of a state-of-the-art biochar research. We are planning to publish special issues in outstanding international journals!

### Environmental Geochemistry and Health

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#### Guest Editors

**Yong Sik Ok** | Ph.D., Full Professor, Director  
Honorable Ambassador of Gangwon Province, Korea Biochar Research Center, Kangwon National University, Korea

**Jörg Rinklebe** | Ph.D., Full Professor  
Faculty of Architecture and Civil Engineering,  
University of Wuppertal, Germany

**Eilhann Kwon** | Ph.D., Professor  
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Sejong University, Korea

**Xiaomin Dou** | Ph.D., Associate Professor  
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Beijing Forestry University, China

**Gijs Du Laing** | Ph.D., Professor  
Department of Analytical & Applied Physical Chemistry,  
Ghent University, Belgium

### Environmental Science and Pollution Research

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#### Guest Editors

**Yong Sik Ok** | Ph.D., Full Professor, Director  
Honorable Ambassador of Gangwon Province, Korea Biochar Research Center, Kangwon National University, Korea

**Scott X. Chang** | Ph.D., Professor  
Department of Renewable Resources,  
University of Alberta, Canada

**Hailong Wang** | Ph.D., Professor  
School of Environmental and Resource Sciences,  
Zhejiang A & F University, China

## Chemical Speciation & Bioavailability

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### Guest Editors

**Yong Sik Ok** | Ph.D., Full Professor, Director  
Honorable Ambassador of Gangwon Province, Korea Biochar Research  
Center, Kangwon National University, Korea

**Daniel Tsang** | Ph.D., Professor  
Department of Civil and Environmental Engineering,  
Hong Kong Polytechnic University, Hong Kong

**Jeffrey M. Novak** | Ph.D., Soil Scientist  
ARS Water and Plant Conservation Research Center,  
United States Department of Agriculture, USA

**Daniel Alessi** | Ph.D., Professor, Encana Chair in Water Resources  
Department of Earth and Atmospheric Sciences,  
University of Alberta, Canada

## Nutrient Cycling in Agroecosystems

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### Special issue subtitle

*"The longer-term role of organic amendments in addressing soil  
constraints to production"*

### Guest Editors

**Lukas Van Zwieten** | Ph.D., Principal Research Scientist, Adjunct Professor  
NSW Department of Primary Industries,  
University of New England, Australia

## Special Issues

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- (1) Environmental Geochemistry and Health
- (2) Environmental Science and Pollution Research
- (3) Chemical Speciation & Bioavailability
- (4) Nutrient Cycling in Agroecosystems

## Contact Information

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