



TOHOKU  
UNIVERSITY

Strategic Energy and Resource Management and Sustainable Solutions  
Graduate School of Environmental Studies  
Tohoku University JAPAN  
国際エネルギー・資源戦略を立案する環境リーダー育成拠点  
東北大学大学院環境科学研究科



Tohoku University JAPAN  
Shanghai Jiao Tong University CHINA

# The 4th International Symposium of Environmental Leader

第4回 環境リーダー国際シンポジウム

**DATE** Thursday, November 15, 2012

**TIME** 09:00-17:00

**VENUE** Shanghai Jiao Tong University  
School of Environmental Science and Engineering  
Shanghai Jiao Tong University  
800 Dongchuanlu, shanghai, 200240, P. R. China

**ADMISSION** Free

**LANGUAGE** English

**ORGANIZERS** Tohoku University Environmental Leadership Program  
Shanghai Jiao Tong University

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URL | <http://www.kankyo.tohoku.ac.jp/sermss/en/index.html>

# PROGRAM

Facilitator: Yasumitsu TANAKA, Professor, Graduate School of Environmental Studies, Tohoku University

## 09:00 Opening Addresses

**Toshiaki YOSHIOKA**, Assistant to the President, Tohoku University (Special Advisor for Policy Planning Coordination)  
Professor, Graduate School of Environmental Studies, Tohoku University

**Aidang SHAN**, Dean, School of Environmental Science and Engineering, Shanghai Jiao Tong University

## 09:20 Keynote Speeches

Transformation and bioavailability of heavy metals at the soil-root interface

**Xinde CAO**, Professor, School of Environmental Science and Engineering (Shanghai)

Bio-energy production for our sustainable future: Application of anaerobic biotechnology

**Yu-You LI**, Associate Professor, Graduate School of Environmental Studies (Tohoku)

## 10:20 Break

## 10:30 Student Presentations Morning Session

- 1 Assessment of optimum temperature for hydrogen fermentation from cellulose  
Samir Ibrahim GADOW (Tohoku)
- 2 Reduction of NaHCO<sub>3</sub> into formic acid with Mn as reductant under hydrothermal conditions  
Lingyun LV (Shanghai)
- 3 Mechanical properties of solid oxide fuel cells components at high temperature  
Yoshikazu SHIRAI (Tohoku)
- 4 Rise of wind power in China and its implication to global environmental security  
- Localization of wind turbine manufacturing industry  
Yan ZHANG (Tohoku)

## 12:00 Lunch Break

## 13:40 Student Presentations Afternoon Session

- 5 C60 Nano aggregates could induce apoptosis of mouse peritoneal RAW 264.7 cell line  
Weilin BIAN (Shanghai)
- 6 Do people adapt to natural disaster? –Evidence from econometric analysis –  
Hiroki ONUMA (Tohoku)
- 7 Fate of 14C-BPA in soil trench system  
Zhen ZHANG (Shanghai)
- 8 Comparative studies on the excitation mechanism of copper ionic lines in Ar and Ne GDP  
Lei ZHANG (Tohoku)
- 9 Removal of natural organic matter in water with TiO<sub>2</sub>-doped photocatalytic separation membrane  
Ba LIU (Shanghai)

## 15:20 Poster Sessions

## 15:50 Student Presentations

- 10 Recovery of organic and inorganic materials by thermal decomposition of metal-containing poly(ethylene terephthalate)  
Shogo KUMAGAI (Tohoku)
- 11 Properties and mechanism of red mud (RM) in the preparation of ultra-lightweight sludge-red mud ceramics (ULS-RMC)  
Yuanfeng QI (Shanghai)
- 12 Incentives that prompt commuters to take subways before morning peak in Beijing  
Zheng ZHANG (Tohoku)

## 16:50 Closing Address

**18:00 Dinner - Banquet** SHANGHAI HOTEL 上海賓館 (505 North Wulumuqi Road (Wulumuqi Bei Lu) Shanghai)