

ICCC2018 Program (S45)

| July 30, 2018 (Mon) | | July 31, 2018 (Tue) | | Aug 1, 2018 (Wen) | | Aug 2, 2018 (Thu) | | Aug 3, 2018 (Fri) | | Aug 4, 2018 (Sat) | | | | | | | | | |
|---------------------|--------------------|---------------------|--|-------------------|--|-------------------|--|-------------------|--|---|--|--|--|-------|--|-----------|--|-------|---|
| | | | | | | 8:30 | Plenary Lecture Prof. Roland A. Fisher | 8:30 | Plenary Lecture Prof. Shie-Ming Peng | | | | | | | | | | |
| | | | | | | 9:15 | Coffee Break | 9:15 | Coffee Break | | | | | | | | | | |
| | | | | | | 9:40 | Wolfgang Lubitz | 9:40 | Marcetta Y. Darensbourg | | | | | | | | | | |
| | | | | | | 10:05 | Yoshiki Higuchi | 10:05 | Wolfgang Weigand | | | | | | | | | | |
| | | | | | | 10:25 | Yasuhito Shomura | 10:25 | Hideaki Ogata | | | | | | | | | | |
| | | | | | | 10:45 | Ki-Seok Yoon | 10:45 | Tomoyoshi Suenobu | | | | | | | | | | |
| | | | | | | 11:00 | Hongjin Lv | 11:00 | Kosei Yamauchi | | | | | | | | | | |
| | | | | | | 11:15 | Abir Sarbajna | 11:15 | Masahiro Yuki | | | | | | | | | | |
| | | | | | | 11:30 | Julien Warnan | 11:30 | Miho Isegawa | | | | | | | | | | |
| | | | | | | 11:45 | Yu-Chiao Liu | 11:45 | Takashi Fujishiro | | | | | | | | | | |
| | | | | | | 12:00 | Andreas Berkefeld | 12:00 | Stephan Kupfer | | | | | | | | | | |
| | | | | | | 15:00 | | | | | | | | 12:15 | | Excursion | | 12:15 | Lunch |
| | | | | | | | | | | | | | | | | | | 13:15 | Plenary Lecture Prof. James Mayer |
| 14:00 | Coffee Break | | | | | | | | | | | | | | | | | | |
| 14:25 | Mei Wang | | | | | | | | | | | | | | | | | | |
| 14:50 | Hannah Shafaat | | | | | | | | | | | | | | | | | | |
| 15:10 | Ming-Hsi Chiang | | | | | | | | | | | | | | | | | | |
| 15:30 | Takahiro Matsumoto | | | | | | | | | | | | | | | | | | |
| 15:50 | Tatsuya Ando | | | | | | | | | | | | | | | | | | |
| 16:05 | Mitsuhiro Kikkawa | | | | | | | | | | | | | | | | | | |
| 16:20 | Coffee Break | | | | | | | | | | | | | | | | | | |
| 16:45 | Morris Bullock | | | | | | | | | | | | | | | | | | |
| 17:10 | Kalina Peneva | | | | | | | | | | | | | | | | | | |
| 17:30 | Sven Stripp | | | | | | | | | | | | | | | | | | |
| 17:50 | Oral Presentation | | | | | | | | | | | | | | | | | | |
| 18:00 | | | | | | | | 18:45 | | Banquet @ Hotel Metropolitan Sendai | | | | | | | | | |
| | | | | | | | | | | Special Lecture: Prof. Eiichi Negishi | | | | | | | | | |
| 19:00 | | | | | | 18:30 | Poster Session | | | | | | | | | | | | |

| Session | Lecture | Poster Date | Code | Name | Affiliation | Title | |
|---------|-----------|-------------|-----------|----------------------|--|--|---------------------------------|
| S45 | Organizer | | | Thomas B. Rauchfuss | Department of Chemistry, 505 South Mathews Avenue Urbana, IL 61801 | | |
| S45 | | | | Seiji Ogo | Kyusyu University | | |
| S45 | | | | | Yoshiki Higuchi | University of Hyogo | |
| S45 | | | | | Takahiro Matsumoto | Kyusyu University | |
| S45 | | | | | Ming-Hsi Chiang | Institute of Chemistry Academia Sinica | |
| S45 | | | | | Hannah S. Shafaat | Newman-Wolfram Laboratory | |
| S45 | | | | | Wolfgang Weigand | Friedrich Schiller University Jena | |
| S45 | | | Keynote | | A00132-MW | Mei Wang | Dalian University of Technology |
| S45 | Keynote | | A00416-WL | Wolfgaang Lubitz | Max Planck Institute for Chemical Energy Conversion | Semisynthetic Hydrogenases | |
| S45 | Keynote | | A00720-MB | Morris Bullock | Pacific Northwest National Laboratory | Design of Molecular Electrocatalysts for Production of Hydrogen - Using Ligand Dynamics to Control Proton Delivery | |
| S45 | Keynote | | A03027-MD | Marcetta Darensbourg | Texas A&M University | NO-Assistance Needed: The Role of Nitric Oxide as Electron Buffering Agent in Bimetallic, Hydrogenase-Inspired, HER Electrocatalysis | |
| S45 | Invited | | A00695-TM | Takahiro Matsumoto | Kyushu University | Mechanistic Insight into Switching between H ₂ - or O ₂ -Activation by Simple Ligand Effects of [NiFe]hydrogenase Models | |
| S45 | Invited | | A00885-YH | Yoshiki Higuchi | University of Hyogo | Structural chemistry on O ₂ -tolerant [NiFe]-hydrogenases | |
| S45 | Invited | | A01231-MC | Ming-Hsi Chiang | Academia Sinica | Electrocatalysts Embedded within Liposomes for Energy Conversion in Neutral Aqueous Media | |
| S45 | Invited | | A01334-WW | Wolfgang Weigand | Institut f. Anorganische und Analytische Chemie, FSU Jena, Humboldtstrasse 8, D-07743 Jena | [FeFe] Hydrogenase Models with a (SCH ₂) ₂ P=O Moiety | |
| S45 | Invited | | A03059-YS | Yasuhito Shomura | Ibaraki University | Oxidation-induced conformational change at the active site of the soluble NAD ⁺ -reducing [NiFe]-hydrogenase | |
| S45 | Invited | | A03060-KP | Kalina Peneva | IOMC, FSU Jena | [FeFe]-Hydrogenase Synthetic Dyads Based on periSubstituted Rylene Dyes | |
| S45 | Invited | | A03061-SS | Sven Stripp | FU Berlin | The Molecular Proceedings of Biological Hydrogen Turnover | |
| S45 | Invited | | A01557-HO | Hideaki Ogata | Institute of Low Temperature Science, Hokkaido University | Unique spectroscopic properties of a sensory [FeFe] hydrogenase | |
| S45 | Invited | | A01997-HS | Hannah Shafaat | The Ohio State University | Model metalloenzymes for H ₂ generation and CO ₂ fixation | |
| S45 | Oral Talk | | A00716-MK | Mitsuhiro Kikkawa | Center for Small Molecule Energy, Kyushu University | A Fusion of Biomimetic Fuel and Solar Cells Based on Hydrogenase, Photosystem II, and Cytochrome c Oxidase | |

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| S45 | Oral Talk | | A00871-TA | Tatsuya Ando | Center for Small Molecule Energy, Department of Chemistry and Biochemistry Graduate School of Engineering, Kyushu University, International Institute for Carbon-Neutral Energy Research (WPI-I2CNER) | One model, Two enzymes: Activation of H ₂ and CO |
| S45 | Oral Talk | | A00941-MI | Miho Isegawa | I2CNER, Kyushu University | DFT Study on Fe(IV)-Peroxo Formation and H-Atom Transfer Triggered O ₂ Activation by NiFe complex |
| S45 | Oral Talk | | A00994-HL | Hongjin Lv | a Key Laboratory of Cluster Science, Ministry of Education of China; School of Chemistry and Chemical Engineering, Beijing Institute of Technology, Beijing, P.R. China; b Department of Chemistry, University of Rochester, Rochester, New York, USA | Efficient Photocatalytic and Photoelectrochemical Generation of Hydrogen in Noble-Metal-Free Systems |
| S45 | Oral Talk | | A01142-KY | Ki-Seok Yoon | International Institute for Carbon-Neutral Energy Research (WPI-I2CNER), Kyushu University | A Diversity of Naturally Occurring O ₂ -Tolerant [NiFe]hydrogenase |
| S45 | Oral Talk | | A01271-AS | Abir Sarbajna | Okinawa Institute of Science and Technology Graduate University | Ligand-assisted H ₂ activation by manganese complexes |
| S45 | Oral Talk | | A01367-JW | Julien Warnan | University of Cambridge | Enzyme-Inspired 3d Metal Complex-Embedding Polymers towards Enhanced Fuel Electrocatalysis in Water |
| S45 | Oral Talk | | A01429-MY | Masahiro Yuki | Department of Systems Innovation, School of Engineering, The University of Tokyo | Catalytic Oxidation of Dihydrogen by Thiolate-bridged Diruthenium Complexes |
| S45 | Oral Talk | | A01695-KY | Kosei Yamauchi | Kyushu University | Nickel Dithiolate Molecular Catalysts Promoting Hydrogen Evolution from Water with Low Overpotentials |
| S45 | Oral Talk | | A03062-TF | Takashi Fujishiro | Saitama University | [Fe]-hydrogenase-cofactor biosynthesis |
| S45 | Oral Talk | | A03063-AB | Andreas Berkefeld | Tuebingen University | Oxidation of H ₂ at electronically distinct nickel-thiolate structures [Ni ₂ (μ-SR) ₂] ⁺ and [Ni-SR] ⁺ |
| S45 | Oral Talk | | A03064-SK | Stephan Kupfer | FSU Jena | To Decay Or Not To Decay - Tuning Unidirectional MultiElectron Transfer Processes in Photocatalysis |
| S45 | Oral Talk | | A01894-TS | Tomoyoshi Suenobu | Graduate School of Engineering, Osaka University | Hydrogen storage and evolution catalyzed by transition metal complexes in protic media |
| S45 | Oral Talk | | A00920-YL | Yu-Chiao Liu | Institute of Chemistry, Academia Sinica | Protonation and Reduction of Carbonyl-Rich Diiron Complexes: Insights into the Electrocatalytic Mechanism of Hydrogen Formation |