# Program

## Sunday 12 July 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>13:00-20:00</td>
<td>Registration opens (3rd floor)</td>
</tr>
<tr>
<td>18:00-20:00</td>
<td>Welcome reception (3rd floor Conference Room)</td>
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## Monday 13 July 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:10-</td>
<td>Registration opens (3rd floor)</td>
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<tr>
<td>08:30-09:00</td>
<td>Opening – ICCOSS 2015</td>
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### Session 1
Chair: Keiichiro Ogawa

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:00-09:50</td>
<td><strong>Plenary Lecture - PL1</strong>&lt;br&gt;New Experimental Techniques for Exploring the Properties of Organic Solids&lt;br&gt;KDM Harris, Cardiff University, UK</td>
</tr>
<tr>
<td>09:50-10:10</td>
<td>O1 Direct Observation of Chemical Reactions in an Interactive Pore by X-rays&lt;br&gt;M Kawano, Pohang University of Science and Technology, Republic of Korea</td>
</tr>
<tr>
<td>10:10-10:30</td>
<td>O2 Fast Molecular Solid-State Reactions by Proper Experimentation&lt;br&gt;G Kaupp, University of Oldenburg, Germany</td>
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-Coffee break & Exhibition (3rd floor Conference Room)-

### Session 2
Chair: Kenneth D. M. Harris

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:00-11:50</td>
<td><strong>Plenary Lecture - PL2</strong>&lt;br&gt;Chirality in flatland: molecular recognition, chiral switches and unidirectional motors at surfaces&lt;br&gt;KH Ernst, Swiss Federal Laboratories for Materials Science and Technology, Switzerland</td>
</tr>
<tr>
<td>11:50-12:10</td>
<td>O3 Preferential enrichment: Application to racemic compound crystals&lt;br&gt;H Takahashi, Kyoto University, Japan</td>
</tr>
<tr>
<td>12:10-12:30</td>
<td>O4 Chirality Ripening and Crystal to Crystal Conversion&lt;br&gt;R Kuroda, Tokyo University of Science, Japan</td>
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-Lunch & Exhibition (3rd floor Conference Room)-

### Session 3
Chair: Hidehiro Uekusa

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:45-14:35</td>
<td><strong>Plenary Lecture - PL3</strong>&lt;br&gt;(Including presentation of ChemComm Emerging Investigator Lectureship 2014)&lt;br&gt;2014 ChemComm Emerging Investigator Lecture: Rehabilitating the solid state as a reaction medium - towards a new, green system of chemical synthesis using mechanochemistry&lt;br&gt;T Friščić, McGill University, Canada</td>
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<tr>
<td>Time</td>
<td>Session Title</td>
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<tr>
<td>14:35-14:55</td>
<td>O5 Sulphur in Crystal Engineering</td>
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<tr>
<td>14:55-15:15</td>
<td>O6 Cation-π Interactions between Pyridinium and Benzene Rings: A Powerful Tool for Arrangement of Organic Molecules</td>
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-Coffee break & Exhibition (3rd floor Conference Room)-

**Session 4**  
Chair: Masaki Kawano

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<thead>
<tr>
<th>Time</th>
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<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>15:45-16:00</td>
<td>Engineering ternary cocrystals by orthogonal hydrogen and halogen bonds (Young Scientist Award Presentation)</td>
<td>F Topić, University of Jyvaskyla, Finland</td>
</tr>
<tr>
<td>16:00-16:15</td>
<td>Crystal Engineering of Metalloporphyrin Assemblies by Concerted Halogen and Hydrogen Bonding Interactions (Young Scientist Award Presentation)</td>
<td>HM Titi, Tel Aviv University, Israel</td>
</tr>
<tr>
<td>16:15-16:30</td>
<td>Hydrogen-Bonded Multiporous Hexagonal Networks Composed of C3-Symmetric π-Conjugated Macrocycles</td>
<td>I Hisaki, Osaka University, Japan</td>
</tr>
<tr>
<td>16:30-16:45</td>
<td>Linking structure with function to design porous organic materials (Young Scientist Award Presentation)</td>
<td>SY Chong, University of Liverpool, UK</td>
</tr>
<tr>
<td>16:45-18:30</td>
<td>Poster Session 1 &lt;odd numbers&gt; (3rd floor Conference Room)</td>
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- **Tuesday 14 July 2015** -

**Session 5**  
Chair: Miguel A. Garcia-Garibay

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:00-09:50</td>
<td>Plenary Lecture - PL4 Acid-Base Complex Formation to Observe Reaction Intermediates in the Crystalline State</td>
<td>Y Ohashi, Tokyo Institute of Technology, Japan</td>
</tr>
<tr>
<td>09:50-10:10</td>
<td>O11 Design of High-performance Supramolecular Host and Guest-dependent Fluorescence Properties of Inclusion Crystals</td>
<td>N Tohnai, Osaka University, Japan</td>
</tr>
<tr>
<td>10:10-10:30</td>
<td>O12 Pyridinium-derived zwitterions as supramolecular building blocks</td>
<td>DA Haynes, University of Stellenbosch, South Africa</td>
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-Coffee break & Exhibition (3rd floor Conference Room)-

**Session 6**  
Chair: Graeme M. Day

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<tbody>
<tr>
<td>11:00-11:50</td>
<td>Plenary Lecture - PL5 Amphidynamic Materials and Molecular Machines: Towards Correlated Rotation and Gearing</td>
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</table>
MA García-Garibay, University of California, USA

11:50-12:05  O13 Crystal Crosslinking as the Third Kind of Crystalline Polymerization
            K Kokado, Hokkaido University, Japan

12:05-12:25  O14 New crystalline phases of Active Pharmaceutical Ingredients obtained by
            crystallization and heat treatment
            GD de Delgado, Universidad de Los Andes, Venezuela

-Lunch & Exhibition (3rd floor Conference Room)-

**Session 7**  Chair: Akikazu Matsumoto
13:45-14:35  Plenary Lecture - PL6
            Photochromism of Diarylenes in Single Crystals
            M Irie, Rikkyo University, Japan

14:35-14:50  O15 Photomechanical Motion of Benzophenone Crystals
            H Koshima, Waseda University, Japan

14:50-15:05  O16 Photoreversible Current ON/OFF Switching by Photoinduced Bending of
            Gold-Coated Diarylethene Crystals *(Young Scientist Award Presentation)*
            D Kitagawa, Osaka City University, Japan

-Coffee break & Exhibition (3rd floor Conference Room)-

**Session 8**  Chair: Norimitsu Tohnai
            MA Fernandes, University of the Witwatersrand, South Africa

15:55-16:10  O18 Structure-Reactivity Correlations and Mechanistic Understanding of
            Photoinduced Rearrangement and Photosalient Effect of α-Santonin and its
            Derivatives in Solutions, Crystals and Crystalline Suspensions *(Young Scientist
            Award Presentation)*
            P Commins, University of California–Los Angeles, USA

16:10-16:25  O19 In situ Control of Solid-State [2+2] Photodimerization in the Dual Photoreactive
            Crystal
            A Sekine, Tokyo Institute of Technology, Japan

16:25-16:40  O20 Structure and Photoreaction of Unsaturated Carboxylic Acids in the Liquid
            Crystalline State
            A Matsumoto, Osaka Prefecture University, Japan

16:45-18:30  Poster Session 2 <even numbers> (3rd floor Conference Room)

**Wednesday 15 July 2015**

**Session 9**  Chair: Graciela Diaz de Delgado
09:00-09:50  Plenary Lecture - PL7
**Functional Liquid-Crystalline Assemblies Exhibiting Photonic, Ionic, and Separation Properties**

**T Kato**, The University of Tokyo, Japan

09:50-10:10  **O21** Ferroelectricity from Molecular Rotation in Organic Ionic Crystals

**J Harada**, Hokkaido University, Japan

10:10-10:30  **O22** Aggregation-induced emission (AIE) behavior of difuroanthra-quinones and their TCNQ analogues

**N Hayashi**, University of Toyama, Japan

-Coffee break & Exhibition (3rd floor Conference Room)-

**Session 10**  Chair: Roger Bishop

11:00-11:50  **Plenary Lecture - PL8**

Organic Radical Crystals: From Structural Transformations to Electronic Functions

**K Awaga**, Nagoya University, Japan

11:50-12:10  **O23** Photoinduced Dynamics in Organic Crystals Studied by Time-resolved Vibrational Spectroscopy

**K Onda**, Tokyo Institute of Technology, Japan

-Short break-

12:25-12:40  **O24** Photo-induced dynamics of Me4P[Pt(dmit)2]2 studied by time-resolved optical spectroscopy and electron-diffraction technique

**T Ishikawa**, Tokyo Institute of Technology, Japan

12:40-12:55  **O25** High field temperature dependent magneto-photocurrent in organic photo-voltaic cells

**B Khachatryan**, Technion-Israel Institute of Technology, Israel

12:55-13:10  **O26** Re-examination of Amio Acid NCA Polymerization 64. Topochemical Polymerization of L-Glutamic Acid Ester N-Carboxy Anhydrides

**H Kanazawa**, Fukushima University, Japan

-Lunch & Exhibition (3rd floor Conference Room)-

14:00-17:30  Excursion

18:00-20:00  Sushi dinner

**Thursday 16 July 2015**

**Session 11**  Chair: Kunio Awaga

09:00-09:50  **Plenary Lecture - PL9**

Organic crystal energetics: polymorphism to prediction

**GM Day**, University of Southampton, UK

09:50-10:10  **O27** Analysis of chalcogen-chalcogen and halogen-halogen interactions in crystals
by ab initio molecular orbital calculations

S Tsuzuki, National Institute of Advanced Industrial Science and Technology, Japan

10:10-10:25  **O28** Towards computer-guided design of porous molecular organic crystals  
A Pulido, University of Southampton, UK

-Coffee break-

**Session 12**  
Chair: Hiroshi Yamamoto  
10:55-11:45  **Plenary Lecture - PL10**  
Mechanistic Considerations in Growth Induced Crystal Twisting  
B Kahr, New York University, USA

11:45-12:05  **O29** Chiral Discrimination in the Solid State: New Ideas on an Old Story  
G Coquerel, Université de Rouen, France

12:05-12:20  **O30** Construction of Chiral Polar Crystals Composed of Hydrogen-bonded Layers by Halogen Bonds *(Young Scientist Award Presentation)*  
T Sasaki, Osaka University, Japan

-Lunch-

**Session 13**  
Chair: Bart Kahr  
13:35-14:25  **Plenary Lecture - PL11**  
Surface mobility of organic glasses and its role in fast crystallization and formation of stable glasses by vapor deposition  
L Yu, University of Wisconsin, UK

14:25-14:40  **O31** Continuous preferential crystallization  
C Rougeot, University of California, USA

14:40-14:55  **O32** Deracemization via Damped Temperature Fluctuations Combined with a Solution Phase Racemization of an Organic Conglomerate Compound  
K Suwannasang, Suranaree University of Technology, Thailand

-Coffee break-

**Session 14**  
Chair: Naoto Hayashi  
15:25-15:45  **O33** Computational Design of Porous Organic Molecules  
KE Jelfs, Imperial College London, UK

14:45-16:05  **O34** Colour properties of fluorescein: an interplay of tautomerism and crystal packing *(Young Scientist Award Presentation)*  
M Arhangelskis, University of Cambridge, UK

16:05-16:20  **O35** The construction of co-crystal ternary phase diagrams as a tool for solvent selection and design of co-crystallization process with regard to particle size distribution  
J Holaň, University of Chemistry and Technology Prague, Czech Republic
16:20-16:35  O36 Solvent vapour-assisted cocrystallisation
I Sarceviča, University of Latvia, Latvia

-Short break-

**Session 15**  
Chair: Jun Harada  
16:55-17:25  ICDD Sponsored Lecture  
Polymorphism in commercially important pharmaceuticals analyzed using the PDF-4 / Organics database  
GD de Delgado, Universidad de Los Andes, Venezuela

17:25-17:40  Young Scientist Awards and Poster Awards

17:40-18:00  O37 Thin-Film Single Crystals for Organic Superconducting Transistor  
HM Yamamoto, Institute for Molecular Science, Japan

18:00-18:15  O38 On the Headaches of Resolving a Low Melting Combination as a Cocrystal or Eutectic  
S Cherukuvada, Indian Institute of Science, India

19:30-21:30  Banquet (Hotel Nikko Niigata)

**Friday 17 July 2015**

**Session 16**  
Chair: Hidehiro Uekusa  
09:00-09:50  Plenary Lecture - PL12  
Asymmetric Synthesis Involving Dynamic Preferential Crystallization  
M Sakamoto, Chiba University, Japan

09:50-10:10  O39 Dynamic Quantum Crystallography: Refinement of lattice dynamical models from periodic ab-initio calculations against elastic X-ray and neutron diffraction data  
AØ Madsen, University of Copenhagen, Denmark

BA Palmer, Weizmann Institute of Science, Israel

-Coffee break-

**Session 17**  
Chair: Masami Sakamoto  
10:55-11:15  O41 Cryoformation of the New Crystalline Drug Nanostructures  
YN Morozov, Moscow State University, Russia

11:15-11:30  O42 Magneto-Structural Correlation in Imidazopyridine Nitornyl Nitroxide Derivatives and Polymorphism  
N Yoshioka, Keio University, Japan

12:30-12:40  Plenary Lecture - PL13  
Crystalline Sponge Method Updated: X-ray Details and Applications
M Fujita, The University of Tokyo, Japan

12:20-12:30  Conclusion Remarks