

## 3CG 2013 MEETING

June 10-13, 2013

The Westin Resort & Spa, Cancun, Mexico

Room A

### Conference Onsite Registration

The Westin Resort & Spa

14:00 - 18:00 PM

June 9

### 3CG 2013 Meeting June 10

<b>7:20 – 8:20</b>	<b>Breakfast</b>	
<b>Monday June 10 8:20 - 8:30 AM</b>	<b>Opening</b>	
<b>Monday June 10</b>	<b>ROOM A: Session 1 (MBE)</b>	<b>Chair: Ikai Lo</b>
8:30 – 9:00 AM	Electrical properties of fullerene doped GaAs pin diodes grown by MBE	<b>Jiro Nishinaga</b> Waseda University, Japan
9:00 – 9:30 AM	Wide-range control of emission wavelengths of InAs/GaAs QDs grown by MBE towards ultra-broadband NIR light source for biomedical imaging	<b>Nobuhiko Ozaki</b> Wakayama University, Japan
9:30 – 10:00 AM	MBE growth of high-dispersive mirrors for sub-picosecond lasers	<b>Agata Jasik</b> Institute of Electron Technology, Poland
<b>10:00 – 10:30 AM</b>	<b>SESSION BREAK</b>	

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<b>Monday June 10</b>	<b>ROOM A: Session 2 (MBE)</b>	<b>Chair: Nobuhiko Ozaki</b>
10:30 – 11:00 AM	Ni(111)/graphene/Y <sub>2</sub> O <sub>3</sub> (111) heterostructures by combined CVD and reactive MBE growth	<b>Matthias Batzill</b> University of South Florida, USA
11:00 – 11:30 AM	The growth of GaN micropillar and microdisk by plasma-assisted molecular beam epitaxy	<b>Ikai Lo</b> National Sun Yat-Sen University, Taiwan
11:30 – 12:00 AM	Direct determination of stress evolution during hetero-epitaxial growth	<b>Hidehito Asaoka</b> Japan Atomic Energy Agency (JAEA), Japan
12:00 – 14:00 PM	<b>LUNCH BREAK</b>	
<b>Monday June 10</b>	<b>ROOM A: Session 3 (Nucleation)</b>	<b>Chair:</b>
14:00 – 14:30 PM	Nucleation and Growth of Carbon Nanotube and Graphene	<b>Hongwei Zhu</b> Tsinghua University, China
14:30 – 15:00PM	Nanoparticles for controlling nucleation and crystallisation	<b>Jerry Heng</b> Imperial College London, United Kingdom
15:00 – 15:30PM	In-Situ studies of apatite formation in water	<b>Casper Steenberg Ibsen</b> Aarhus University, Denmark
15:30 – 16:00PM	<b>SESSION BREAK</b>	
<b>Monday June 10</b>	<b>ROOM A: Session 4 (MOVPE)</b>	<b>Chair: Hongwei Zhu</b>
16:00 – 16:30PM	Formation of inversion domain structure in MOVPE AlN thin layers grown on a sapphire substrate	<b>Noriyuki Kuwano</b> Malaysia-Japan International Institute of Technology (MJIT), Malaysia
16:30 – 17:00PM	Impact of the crystal symmetry on orientation and directed-assembly of laterally grown cubic and hexagonal nanowires and heterojunctions	<b>Babak Nikoobakht</b> National Institute of Standards and Technology, USA
17:00 – 17:30PM	Selective area MOVPE of vertical and lateral InAs nanowires on silicon substrates	<b>Kamil Sladek</b> Peter Grunberg Institut (PGI-9), Germany

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17:30 – 18:00PM		
<b>3CG 2013 Meeting June 11</b>		
<b>7:30 – 8:30</b>	<b>Breakfast and Poster</b>	
<b>Tuesday June 11</b>	<b>ROOM A: Session 5 (Layered Materials)</b>	<b>Chair: Mukannan Arivanandhan</b>
8:30 – 9:00 AM	Intercalation and defects in epitaxial graphene on a metal	<b>Johann Coraux</b> CNRS & Université Joseph Fourier, France
9:00 – 9:30 AM	Electronic properties and free-charge carriers in epitaxial graphene on SiC	<b>Vanya Darakchieva</b> Linköping University, Sweden
9:30 – 10:00 AM	Growth and properties of Large-Area MoS <sub>2</sub> mono-layer and bi-layer on Insulating Substrates	<b>Jai Singh</b> Sejong university, Korea
10:00 – 10:30 AM	<b>SESSION BREAK</b>	
<b>Tuesday June 11</b>	<b>ROOM A: Session 6 (Epitaxy)</b>	<b>Chair: Johann Coraux</b>
10:30 – 11:00 AM	Combinatorial Substrate Epitaxy: A high throughput method for determining phase and orientation relationships in thin film growth.	<b>Gregory S. Rohrer</b> Carnegie Mellon University, USA
11:00 – 11:30 AM	Layered mixed-anion compounds: Epitaxial growth, active function exploration, and device application	<b>Hidenori Hiramatsu</b> Tokyo Institute of Technology, Japan
11:30 – 12:00 AM	Suppression of light induced degradation in B-doped Czochralski grown silicon by Ge codoping	<b>Mukannan Arivanandhan</b> Shizuoka University, Japan
12:00 - 14:00 PM	<b>LUNCH BREAK</b>	
<b>Tuesday June 11</b>	<b>ROOM A: Session 7 (Quantum)</b>	<b>Chair: Bene Poelsema</b>
14:00 – 14:30 PM	Mass transport and material re-organization during growth and capping of semiconductor quantum dots	<b>Holger Eisele</b> Technische Universität Berlin, Germany

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14:30 – 15:00 PM	Growth and optoelectronic properties of Silicon quantum dots	<b>Jun Xu</b> Nanjing University, China
15:00 – 15:30 PM	Formation of quantum dots in cascade structures	<b>S. Rajesh</b> Karunya University, India
15:30-16:00 PM	<b>SESSION BREAK</b>	
<b>Tuesday June 11</b>	<b>ROOM A: Session 8 (General)</b>	<b>Chair: Jun Xu</b>
16:00 – 16:30 PM	Preparation and properties of spherical shaped hematite nanocrystals	<b>C.K. MAHADEVAN</b> Manonmaniam Sundaranar University, India
16:30 – 17:00 PM	Growth of Cobalt Oxide Films by Spin Coating	<b>Pawar Charudatta Shyamarao</b> Shankarrao Mohite Mahavidyalaya, India
17:00 – 17:30 PM	Quantum size stabilization during initial growth of metal films	<b>Bene Poelsema</b> University of Twente, Netherlands
17:30 – 18:00 PM	Photoassisted Chemical Deposition of Nanocrystalline CdSe Films	<b>Sanjay W. Pawar</b> H. P. T. Arts & R.Y.K. Science College India
<b>3CG 2013 Meeting June 12</b>		
<b>7:30 – 8:30</b>	<b>Breakfast and Poster</b>	
<b>Wednesday June 12</b>	<b>ROOM A: Session 9 (Nanocrystals)</b>	<b>Chair: Aamna Balouch</b>
8:30 – 9:00 AM	Morphological control of titanium dioxide nanocrystals by solvothermal method employing water-soluble titanium complexes	<b>Makoto Kobayashi</b> Tohoku University, Japan
9:00 - 9:30 AM	Synthesis of monodispersed tungsten bronze Nano crystals by solvothermal reaction	<b>Tsugio Sato</b> Tohoku University, Japan

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9:30 – 10:00 AM	Crystal growth and optoelectronics in quantum nanostructures on nonpolar oxides	<b>Hiroaki Matsui</b> University of Tokyo, Japan
10:00 – 10:30 AM	<b>SESSION BREAK</b>	
<b>Wednesday June 12</b>	<b>ROOM A: Session 10 (General)</b>	
10:30 – 11:00 AM	Laser processed substrate for stress reduction in hetero-epitaxy	<b>Hideo Aida</b> President of R&D at Namiki Precision Jewel Co. LTD, Japan
11:00 – 11:30 AM	Colloidal Heterostructured Nanocrystals: Synthesis, Properties and Applications	<b>P. Davide COZZOLI</b> Universit àdel Salento, Italy
11:30 – 12:00 AM	Direct Growth of porous hollow palladium nanoparticles on ITO substrate using LPD process	<b>Aamna Balouch</b> University Kebangsaan Malaysia, Malaysia
12:00 - 14:00 PM	<b>LUNCH BREAK</b>	
<b>Wednesday June 12</b>	<b>ROOM A: Session 11 (Nanowires)</b>	
14:00 – 14:30 PM	Growth of nanowires by high temperature glancing angle disposition	<b>Motofumi Suzuki</b> Kyoto University, Japan
14:30 – 15:00 PM	MOVPE self-assembly of III-V nanowires: advances in growth control and device fabrication	<b>Paola Prete</b> CNR-IMM Lecce Research Unit, Italy
15:00 – 15:30 PM	On the road towards GaAs nanowire integration: Au-free growth and crystal phase purity	<b>Stefano Filo Ambrosini</b> Universit àdi Trieste, Italia
15:30 – 16:00 PM	<b>SESSION BREAK</b>	
<b>Wednesday June 12</b>	<b>ROOM A: Session 12 (Nanowires)</b>	
16:00 – 16:30 PM	Growth controlled of monocrystalline V <sub>2</sub> O <sub>5</sub> nanowires by solvothermal reduction	<b>Patricia Santiago</b> Universidad Nacional Autónoma de México, Mexico

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16:30 – 17:00 PM	Solution phase growth of porous Pt nanocubes directly on the substrate surface: A nanowire-constructed nanocube	<b>Akrajas Ali Umar</b> Universiti Kebangsaan Malaysia, Malaysia
17:00 – 17:30 PM	Energetic instability of micro and nano wires and films	<b>Harris Wong</b> Louisiana State University, USA
17:30 – 18:00 PM	A universal maskless fabrication of surface nancone arrays and its wide-ranging application	<b>Junjie Li</b> Chinese Academy of Sciences, China
<b>Thursday June 13</b>	<b>Social Network Events</b>	

<p><b>3CG 2013 MEETING</b></p> <p><b>June 10-13, 2013</b></p> <p><b>The Westin Resort &amp; Spa, Cancun, Mexico</b></p> <p><b>Room B</b></p>		
<p><b>Conference Onsite Registration</b></p> <p><b>The Westin Resort &amp; Spa</b></p> <p><b>14:00 - 18:00 PM</b></p> <p><b>June 9</b></p>		
<p><b>3CG 2013 Meeting June 10</b></p>		
7:20 – 8:20	Breakfast	
Monday June 10 8:20 - 8:30 AM	Opening	
Monday June 10	Room B: Session 1 (Nanostructural)	Chair: Eva Rauls
8:30 – 9:00 AM	In-situ observation of homogeneous nucleation in vapor phase and determination of surface free energy of nanoparticles	<b>Yuki Kimura</b> Tohoku University, Japan
9:00 – 9:30 AM	Growth and characterization of homojunctions based on ZnO nanowires for nanoscale light sources	<b>Jianlin Liu</b> University of California, USA
9:30 – 10:00 AM	In situ atomic observation of E-beam assisted nanostructural growth under electron microscope	<b>Jianbo Wang</b> Wuhan University, China
10:00 – 10:30	SESSION BREAK	
Monday June 10	Room B: Session 2 (Nano Device)	Chair: Yuki Kimura

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10:30 – 11:00 AM	A self-powered UV detector based on ZnO nanoneedles/H <sub>2</sub> O solid-liquid heterojunction	<b>Yanxue Chen</b> Shandong University, China
11:00 – 11:30 AM	Highly incline-oriented growth of layered cobaltite Ca <sub>x</sub> CoO <sub>2</sub> thin films and its application to fast bolometric sensors utilizing the off-diagonal thermoelectric effect	<b>Kouhei Takahashi</b> Advanced Technology Research Laboratories, Panasonic Corporation, Japan
11:30 – 12:00 AM	Precipitation induced growth of SiC clusters in ion implanted Silicon	<b>Eva Rauls</b> Universitaet Paderborn, Germany
12:00 - 14:00 PM	<b>LUNCH BREAK</b>	
<b>Monday June 10</b>	<b>Room B: Session 3 (Nanostructure)</b>	<b>Chair: Boris Feigelson</b>
14:00 – 14:30 PM	Charge-enhanced diffusion: insight from the deposition behavior of charged nanoparticles during chemical vapor deposition	<b>Nong-Mong Hwang</b> Seoul National University, Korea
14:30 – 15:00 PM	Two types of supramolecular assemblies with water-soluble p-sulfonatocalix arene-lanthanide complexes: one-dimensional ‘ladder-type’ coordination polymers and ‘inclusion-type’ hydrogen-bonded polymers	<b>Fumio Hamada</b> Akita University, Japan
15:00 – 15:30 PM	ZnO(TiO <sub>2</sub> ) nanostructures for photoelectrochemical devices	<b>Hao Wang</b> Hubei University, China
15:30 – 16:00 PM	<b>SESSION BREAK</b>	
<b>Monday June 10</b>	<b>Room B: Session 4 (Nanostructure)</b>	<b>Chair: Nong-Mong Hwang</b>
16:00 – 16:30 PM	Morphological evolution, structural and optical investigations of ZnO:Mg nanostructures	<b>Jai Singh</b> Sejong university, Korea
16:30 – 17:00 PM	Retained Nanostructures in Monoliths by Multi-Anvil High Pressure Processing	<b>Boris Feigelson</b> Naval Research Laboratory, USA
17:00 – 17:30 PM	Hierarchical ZnO/TiO <sub>2</sub> Nanostructures via Novel Solution Routes and Their Applications in Dye-Sensitized Solar Cells	<b>Xiang-Dong Gao</b> Shanghai Institute of Ceramics, CAS, China

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17:30 – 18:00 PM	The crystal growth of ZrO <sub>2</sub> and iron oxide nanostructures with different crystalline structures	<b>Yi-Feng Lin</b> Chung Yuan Christian University, Taiwan
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<b>7:30 – 8:30</b>	<b>Breakfast and Poster</b>	
<b>Tuesday June 11</b>	<b>Room B: Session 5 (Nano Device)</b>	<b>Chair: Alexandra Pena Revellez</b>
8:30 – 9:00 AM	Piezotronics and Piezo-phototronics	<b>Zhong Lin Wang</b> Georgia Institute of Technology, USA
9:00 – 9:30 AM	3-dimensional nano structures for photonics devices	<b>Jong-Lam Lee</b> Pohang University of Science and Technology, Korea
9:30 – 10:00 AM	Metal Oxide Nanowires: Thier Properties and Device Applications	<b>Takeshi Yanagida</b> Osaka University, Japan
10:00 – 10:30 AM	<b>SESSION BREAK</b>	
<b>Tuesday June 11</b>	<b>Room B: Session 6 (Oxide)</b>	<b>Chair: Takeshi Yanagida</b>
10:30 – 11:00 AM	Superionic Conducting Glass-Ceramics of Silicophosphates: Crystallization Kinetics and Conduction Properties	<b>Toshinori Okura</b> Kogakuin University, Japan
11:00 – 11:30 AM	Atomic and electronic structure of Mn-doped Ga <sub>2</sub> O <sub>3</sub> thin film and interface with MgAl <sub>2</sub> O <sub>4</sub> substrate	<b>Hiroyuki Hayashi</b> Kyoto University, Japan
11:30 – 12:00 AM	Periodically domain-structured KTiOPO <sub>4</sub> crystals grown from high temperature solution	<b>Alexandra Pena Revellez</b> Institut Néel – CNRS / UJF, France
12:00 – 14:00 PM	<b>LUNCH BREAK</b>	
<b>Tuesday June 11</b>	<b>Room B: Session 7 (Oxide Thin Film)</b>	<b>Chair: S.M. Koohpayeh</b>
14:00 – 14:30 PM	Oxide thin film growth by pulsed laser deposition: Effects of postannealing.	<b>Kosuke Matusuzaki</b> Tokyo Institute of Technology, Japan

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14:30 – 15:00 PM	A study on surface morphology and optical properties of Copper Sulphide thin films deposited by vacuum evaporation technique	<b>Huseyin Derin</b> Adnan Menderes University, Turkey
15:00 – 15:30 PM	Growth of Mn-doped ZnO films on various substrates by rf-sputter deposition	<b>Noriaki Matsunami</b> Meijo University, Japan
15:30 – 16:00 PM	<b>SESSION BREAK</b>	
<b>Tuesday June 11</b>	<b>Room B: Session 8 (Oxide)</b>	<b>Chair: Noriaki Matsunami</b>
16:00 – 16:30 PM	Energy enhanced deposition of thin nanocrystalline films: morphology of GaN and TiO <sub>2</sub> films grown by reactive sputtering	<b>Douglas Marcel Gonçalves Leite</b> Univ. Estadual Paulista – UNESP, Brazil
16:30 – 17:00 PM	Electron localization in anatase and rutile TiO <sub>2</sub>	<b>Cesare Franchini</b> University of Vienna, Austria
17:00 – 17:30 PM	Floating Zone Crystal Growth of Functional Oxides	<b>S.M. Koohpayeh</b> Johns Hopkins University, USA
17:30 – 18:00 PM	Growth of Cu: SnO <sub>2</sub> Films via Spray Pyrolysis and their Study towards LPG and H <sub>2</sub> S sensor	<b>Kishor M. Sonawane</b> Fergusson College, India
<b>3CG 2013 Meeting June 12</b>		
<b>7:30 – 8:30</b>	<b>Breakfast and Poster</b>	
<b>Wednesday June 12</b>	<b>Room B: Session 9 (Photovoltaic)</b>	<b>Chair: Ajmal Khan</b>
8:30 – 9:00 AM	Advances in Chalcopyrite type AgInSe <sub>2</sub> semiconductor for Photovoltaic Applications	<b>Dinesh Pathak</b> University of Pardubice, Czech Republic
9:00 – 9:30 AM	Growth, physical and photo-electrical properties of solid solutions CuInS <sub>2</sub> -ZnIn <sub>2</sub> S <sub>4</sub>	<b>Vaidotas KAŽUKAUSKAS</b> Vilnius University, Lithuania

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9:30 – 10:00 AM	Growth of ternary structure CuInS <sub>2</sub> semiconductor nanocrystals and their applications	<b>Duk Young Jeon</b> Korea Advanced Institute of Science and Technology, Korea
10:00 – 10:30 AM	<b>SESSION BREAK</b>	
<b>Wednesday June 12</b>	<b>Room B: Session 10 (Photovoltaic)</b>	<b>Chair: Vaidotas KAŽUKAUSKAS</b>
10:30 – 11:00 AM	Engineering of Impurity doped p-n junction for High Efficiency Semiconducting BaSi <sub>2</sub> based Thin Film Solar Cells	<b>Ajmal Khan</b> University of Tsukuba, Japan
11:00 – 11:30 AM	Attempt to manufacture a solar cell by using a simple method of n-type doping of monocrystalline silicon	<b>Diouma Kobor</b> University of Ziguinchor, Senegal
11:30 – 12:00 AM	New strategies to enhance mono-lithic and nano-film electrodes in solar conversion processes	<b>Hikmat S. Hilal</b> An-Najah N. University, Palestine
12:00 – 14:00 PM	<b>LUNCH BREAK</b>	
<b>Wednesday June 12</b>	<b>Room B: Session 11 (Energy)</b>	<b>Chair: Fabio A. Ferri</b>
14:00 – 14:30 PM	First steps of the semiconductor nanostructure formation	<b>Gregorio Hernández Cocoletzi</b> University City - BUAP, Mexico
14:30 – 15:00 PM	Hydrothermally grown nanomaterials for efficient light harvester	<b>Sawanta S. Mali</b> Shivaji University, India
15:00 – 15:30 PM	Designing nanocomposite anodes for Li-ion batteries	<b>Alexey Glushenkov</b> Deakin University, Australia
15:30 – 16:00 PM	<b>SESSION BREAK</b>	
<b>Wednesday June 12</b>	<b>Room B: Session 12 (Semiconductor)</b>	<b>Chair: Alexey Glushenkov</b>
16:00 – 16:30 PM	Mesoscopic materials grown by MOCVD for thermoelectric power generation: Semiconductor nanowire networks and semi-metallic/semiconductor	<b>Nobuhiko P. Kobayashi</b> University of California, USA

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	thin films	
16:30 – 17:00 PM	Magnetic impurities in group-IV and group-III-V semiconductors	<b>Fabio A. Ferri</b> University of Arkansas, USA
17:00 – 17:30 PM	Epitaxial growth of vertical III-V semiconductor nanowires on Si and graphene	<b>Helge Weman</b> Norwegian University of Science and Technology, Norway
17:30 – 18:00 PM	Upcoming	<b>William Alan Doolittle</b> Georgia Institute of Technology, USA
<b>Thursday June 13</b>	<b>Social Network Events</b>	

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<p><b>3CG 2013 Meeting June 10</b></p>		
7:20 – 8:20	<p><b>Breakfast</b></p>	
<p><b>Monday</b> <b>June 10</b> <b>8:20 - 8:30 AM</b></p>	<p><b>Opening</b></p>	
<p><b>Monday</b> <b>June 10</b></p>	<p><b>Room C: Session 1 (General)</b></p>	<p><b>Chair: Hiroshi Fujioka</b></p>
8:30 – 9:00 AM	<p>Preparation of free-standing GaN substrates from thick GaN layers crystallized by Hydride Vapor Phase Epitaxy on ammonothermally grown GaN seeds</p>	<p><b>Michal Bockowski</b> Institute of High Pressure Physics PAS , TopGaN Ltd, Poland</p>
9:00 – 9:30 AM	<p>Growth of doped nanocrystals with bi functional properties</p>	<p><b>Santa Chawla</b> CSIR – National Physical Laboratory, India</p>
9:30 – 10:00 AM	<p>Crystal growth for super high-efficiency multi-junction Solar cells</p>	<p><b>Yoshio Ohshita</b> Toyota Technological Institute, Japan</p>
10:00 – 10:30 AM	<p><b>SESSION BREAK</b></p>	

Conference Program Schedule Room C – 3CG 2013 Meeting

<b>Monday June 10</b>	<b>Room C: Session 2 (Semiconductor)</b>	<b>Chair: Michal Bockowski</b>
10:30 – 11:00 AM	Epitaxial Growth of High Quality Nitride Films by Pulsed	<b>Hiroshi Fujioka</b> The University of Tokyo, Japan
11:00 – 11:30 AM	High performance nitride-based HFET phtosensors	<b>Motoaki Iwaya</b> Meijo University, Japan
11:30 – 12:00 AM	Precise control of strain by interface formation in type-II InAs/GaSb superlattice	<b>Janusz Kaniewski</b> Institute of Electron Technology, Poland
12:00 - 14:00 PM	<b>LUNCH BREAK</b>	
<b>Monday June 10</b>	<b>Room C: Session 3 (Semiconductor)</b>	<b>Chair: Zbigniew Bukowski</b>
14:00 – 14:30 PM	Various efforts for DUV and VUV lasers	<b>Nobuhiko Sarukura</b> Osaka University, Japan
14:30 – 15:00 PM	Semi-polar growth of InN on GaAs (11n) substrate by MOVPE	<b>Hisashi Murakami</b> Tokyo Univeristy of Agriculture and Technology, Japan
15:00 – 15:30 PM	Fast SiC growth rate epitaxy by chloride precursors	<b>Francesco La Via</b> CNR-IMM sezione di Catania, Italy
15:30 – 16:00 PM	<b>SESSION BREAK</b>	
<b>Monday June 10</b>	<b>Room C: Session 4 (Single Crystal)</b>	<b>Chair: Hisashi Murakami</b>
16:00 – 16:30 PM	Single Crystal Growth of 1D and 2D Pnictide and Chalcogenide Superconductors	<b>Bing Lv</b> University of Houston, USA
16:30 – 17:00 PM	Crystal growth and scintillation properties of some CsMX <sub>3</sub> :Eu <sup>2+</sup> (M=Ca, Sr; X=Cl, Br) solid solutions	<b>V.L.Cherginets</b> National Academy of Sciences of Ukraine, Ukraine
17:00 – 17:30 PM	Growth and Properties of Single Crystals of the 122-Type Superconducting Iron Pnictides	<b>Zbigniew Bukowski</b> Polish Academy of Sciences in Wroclaw, Poland

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17:30 – 18:00 PM	Traveling Solvent Floating Zone (TSFZ) Growth of Various Superconducting Single Crystals	<b>Chengtian Lin</b> Max-Planck-Institute for Solid State Physics, Germany
<b>3CG 2013 Meeting June 11</b>		
<b>7:30 – 8:30</b>	<b>Breakfast and Poster</b>	
<b>Tuesday June 11</b>	<b>Room C: Session 5 (Molecular)</b>	<b>Chair: Ausrine Bartasyte</b>
8:30 – 9:00 AM	Design, Synthesis and Supramolecular Behaviour of New Lattice Host-Guest Systems	<b>Solhe F. Alshahateet</b> Mutah University, Jordan
9:00 – 9:30 AM	Solid State Molecular Recognition and Supramolecular Assembly	<b>Shyamaprosad Goswami</b> Bengal Engineering and Science University, India
9:30 – 10:00 AM	Direct visualization of subcritical nuclei in molecular film growth	<b>Raoul van Gastel</b> University of Twente, Netherlands
10:00 – 10:30 AM	<b>SESSION BREAK</b>	
<b>Tuesday June 11</b>	<b>Room C: Session 6 (Single Crystals)</b>	<b>Chair: Raoul van Gastel</b>
10:30 – 11:00 AM	Chemical and strain engineering: from single crystals to thin films of LiNbO <sub>3</sub> and LiTaO <sub>3</sub> for optical and acoustic applications	<b>Ausrine Bartasyte</b> Universit é de Lorraine, France
11:00 – 11:30 AM	Growth of High-Purity CaWO <sub>4</sub> Single Crystals for the Low-Temperature Dark Matter Research Experiments CRESST and EURECA	<b>Andreas Erb</b> Technische Universit ä t M ünchen, Germany
11:30 – 12:00 AM	Temperature variation of indirect band gap of Tl <sub>2</sub> In <sub>2</sub> S <sub>3</sub> Se layered single crystals were obtained by means of absorption and photoconductivity measurements	<b>İpek Güler</b> Cankaya University, Turkey
12:00 – 14:00 PM	<b>LUNCH BREAK</b>	
<b>Tuesday June 11</b>	<b>Room C: Session 7 (Single Crystals)</b>	<b>Chair: Haosu Luo</b>

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14:00 – 14:30 PM	Growth and technologically important single crystal by solution and melt growth methods	<b>N. Vijayan</b> National Physical Laboratory, India
14:30 – 15:00 PM	Development of functional single crystals by micro-pulling-down method	<b>Yuui Yokota</b> Tohoku University, Japan
15:00 – 15:30 PM	Development of High Quality, Direction Controlled Single Crystals by Solution and the Effect of Impurities on their Growth	<b>P. Rajesh</b> SSN College of Engineering, India
15:30-16:00 PM	<b>SESSION BREAK</b>	
<b>Tuesday June 11</b>	<b>Room C: Session 8 (Single Crystals)</b>	<b>Chair: Yuui Yokota</b>
16:00 – 16:30 PM	Single-Crystal Structure and Polymorphism Screening of Racemate Menthol and its Levorotatory Optical Isomer	<b>Yohann Corvis</b> Paris Descartes University, France
16:30 – 17:00 PM	The Ultra-high electrical conductivity in metal single crystals and mixed crystals	<b>Se-Young Jeong</b> Pusan National University, Korea
17:00 – 17:30 PM	Fabrication of a zone refining system, purification and growth of single crystals of lead iodide for the detectors	<b>S.K. Chaudhary</b> Maharshi Dayanand University, India
17:30 – 18:00 PM	Optimization of growth of relaxor-based single crystals used for ultrasonic transducer application	<b>Haosu Luo</b> Shanghai Institute of Ceramics, CAS, China
<b>3CG 2013 Meeting June 12</b>		
<b>7:30 – 8:30</b>	<b>Breakfast and Poster</b>	
<b>Wednesday June 12</b>	<b>Room C: Session 9 (Single Crystals)</b>	<b>Chair: Mika Buxhuku</b>
8:30 – 9:00 AM	Growth of bulk crystal of gallium nitride by ammonothermal method	<b>Tadao Hashimoto</b> SixPoint Materials, Inc., USA
9:00 – 9:30 AM	Growth and characterization of nonlinear optical crystal for Photonics applications	<b>G. Shankar</b> Govrnment College of Engineering, India

Conference Program Schedule Room C – 3CG 2013 Meeting

9:30 – 10:00 AM	Dynamics of polar nanoregions in lead free relaxor ferroelectric single crystals	<b>Chandra Shekhar Pandey</b> Ruhr University Bochum, Germany
10:00 – 10:30 AM	<b>SESSION BREAK</b>	
<b>Wednesday June 12</b>	<b>Room C: Session 10 (General)</b>	<b>Chair: Tadao Hashimoto</b>
10:30 – 11:00 AM	Contemplation of LTA zeolite crystal growth and formation	<b>Pankaj Sharma</b> Chungnam National University, Korea
11:00 – 11:30 AM	Dynamic CN-bridged coordination networks	<b>Beata Nowicka</b> Jagiellonian University, Poland
11:30 – 12:00 AM	The diffraction geometry and measurement of intensities in the Rotation Electron Diffraction Technique	<b>Mika Buxhuku</b> University of Stavanger, Norway
12:00 – 13:30 PM	<b>LUNCH BREAK</b>	
<b>Wednesday June 12</b>	<b>Room C: Session 11 (Single Crystal)</b>	<b>Chair: Peter Schall</b>
13:30 – 14:00 PM	Analyzing Crystals by Ultrasonic Microspectroscopy	<b>Yuji Ohashi</b> Tohoku University, Japan
14:00 – 14:30 PM	Single crystal growth and characterization of superconducting LiFeAs and its substitution variants	<b>Sabine Wurmehl</b> Leibniz Institute for Solid State and Materials Research Dresden, Germany
14:30 – 15:00 PM	Growth of Layered Crystals	<b>Zhengdong Cheng</b> Texas A&M University, USA
15:00 – 15:30 PM	Effects of impurities on the properties of sapphire	<b>Radion Mogilevsky</b> Emerging Material Technologies, Inc USA
15:30 – 16:00 PM	<b>SESSION BREAK</b>	

Conference Program Schedule Room C – 3CG 2013 Meeting

<b>Wednesday June 12</b>	<b>Room C: Session 12 (Single Crystal)</b>	<b>Chair: Sabine Wurmehl</b>
16:00 – 16:30 PM	Single Crystal Growth of Organic Semiconductors	<b>Shu Hotta</b> Kyoto Institute of Technology, Japan
16:30 – 17:00 PM	Direct "atomic-scale" observation of crystallization in colloidal systems	<b>Peter Schall</b> University of Amsterdam, Netherlands
17:00 – 17:30 PM	Pure and doped aromatic derivatives crystals growth and characterization	<b>Anca Stanculescu</b> National Institute of Materials Physics, Romania
17:30 – 18:00 PM	High-pressure crystal growth and electromagnetic properties of perovskite oxides and related compounds	<b>Kazunari Yamaura</b> Hokkaido University, Japan
<b>Thursday June 13</b>	<b>Social Network Events</b>	

<p><b>3CG 2013 MEETING</b></p> <p><b>June 10-13, 2013</b></p> <p><b>The Westin Resort &amp; Spa, Cancun, Mexico</b></p> <p><b>Room D</b></p>		
<p><b>Conference Onsite Registration</b></p> <p><b>The Westin Resort &amp; Spa</b></p> <p><b>14:00 - 18:00 PM</b></p> <p><b>June 9</b></p>		
<p><b>3CG 2013 Meeting June 10</b></p>		
7:20 – 8:20	Breakfast	
Monday June 10 8:20 - 8:30 AM	Opening	
Monday June 10	Room D: Session 1 (Molecular)	Chair: Jianguo Li
8:30 – 9:00 AM	Symmetry and the polar state of condensed molecular matter: theory and experimental facts	<b>Jürg Hullige</b> University of Berne, Switzerland
9:00 – 9:30 AM	Advanced properties of spin-photonic crystals and metamaterials	<b>YoungPak Lee</b> Hanyang University, Korea
9:30 – 10:00 AM	Molecular “photomagnetic” conductors	<b>Toshio Naito</b> Ehime University, Japan
10:00 – 10:30 AM	SESSION BREAK	
Monday June 10	Room D: Session 2 (General)	Chair: YoungPak Lee

Conference Program Schedule Room D – 3CG 2013 Meeting

10:30 – 11:00 AM	Brief review of various gel grown metallic tartrate crystals	<b>S.J.Joshi</b> Government Science College, India
11:00 – 11:30 AM	Orientation control in multi-component metallic alloy during solidification	<b>Jianguo Li</b> Shanghai Jiaotong University, China
11:30 – 12:00 AM	Orientation and property control of Tb-Fe and Tb-Dy-Fe materials during solidification in high magnetic fields	<b>Tie Liu</b> Northeastern University, China
12:00 - 14:00 PM	<b>LUNCH BREAK</b>	
<b>Monday June 10</b>	<b>Room D: Session 3 (Molecular)</b>	<b>Chair: Shouke Yan</b>
14:00 – 14:30 PM	Upcoming	<b>Yong-Hoon Cho</b> Korea Advanced Institute of Science and Technology (KAIST), Korea
14:30 – 15:00 PM	Growth and characterization of amino acid doped potassium dihydrogen phosphat	<b>K.D. Parikh</b> M. P. Shah Arts & Science College, India
15:00 – 15:30 PM	Growth behaviors of inorganic functional materials	<b>Dongfeng Xue</b> Changchun Institute of Applied Chemistry, CAS, China
15:30 – 16:00 PM	<b>SESSION BREAK</b>	
<b>Monday June 10</b>	<b>Room D: Session 4 (Chemical)</b>	<b>Chair: Dongfeng Xue</b>
16:00 – 16:30 PM	Structure and dynamics of multifunctional materials with neutron scatterings	<b>Dehong Yu</b> Australian Nuclear Science and Technology Organisation, Australia
16:30 – 17:00 PM	Weak Intramolecular Hydrogen Bonding in Aromatic Molecules. A Crystallographic Investigation	<b>Zhanting Li</b> Fudan University, China
17:00 – 17:30 PM	Crystallization growth of polymers on oriented substrates	<b>Shouke Yan</b> Beijing University of Chemical Technology, China

Conference Program Schedule Room D – 3CG 2013 Meeting

17:30 – 18:00 PM	Upcoming	<b>Jian-Feng Yang</b> Xi'An Jiao Tong University, China
<b>3CG 2013 Meeting June 11</b>		
<b>7:30 – 8:30</b>	<b>Breakfast and Poster</b>	
<b>Tuesday June 11</b>	<b>Room D: Session 5 (General)</b>	<b>Chair: Seungho Park</b>
8:30 – 9:00 AM	Destabilization of convection in Czochralski melt flow by slow rotation and by low-amplitude oscillations of crucible wall temperature	<b>Alexander Gelfgat</b> Tel Aviv University, Israel
9:00 – 9:30 AM	Sublimation growth of the 3C-SiC on hexagonal SiC substrates	<b>Alexander Lebedev</b> Ioffe Institute of Russian Academy of Sciences, Russia
9:30 – 10:00 AM	Corrosion Resistance of Dendritic and Eutectic Al-Cu Alloys as a Function of Microstructure	<b>Alicia Esther Ares</b> National University of Misiones, Argentina
10:00 – 10:30 AM	<b>SESSION BREAK</b>	
<b>Tuesday June 11</b>	<b>Room D: Session 6 (General)</b>	<b>Chair: Alicia Esther Ares</b>
10:30 – 11:00 AM	Use of Low-Phonon Crystalline Hosts for Rare Earth-Doped Mid-infrared Lasers and Phosphors	<b>Joseph Ganem</b> Loyola University Maryland, USA
11:00 – 11:30 AM	Current Stage on Flash Lamp Crystallization for LTPS on Large-Scale Glass Backplanes up to 8th Gen	<b>Seungho Park</b> Hongik University, Korea
11:30 – 12:00 AM	Assessment of a nanocrystal 3D morphology by the analysis of single HAADF-HRSTEM images	<b>Antonio J. Ramirez</b> Brazilian Nanotechnology National Laboratory, Brazil
12:00 – 14:00 PM	<b>LUNCH BREAK</b>	
<b>Tuesday June 11</b>	<b>Room D: Session 7 (General)</b>	<b>Chair: Robert Edgington</b>

Conference Program Schedule Room D – 3CG 2013 Meeting

14:00 – 14:30 PM	Upcoming	<b>Igor Levchenko</b> CSIRO Materials Science and Engineering, Australia
14:30 – 15:00 PM	Upcoming	<b>Jinghua Fang</b> CSIRO Materials Science and Engineering, Australia
15:00 – 15:30 PM	Upcoming	<b>Keisuke Ohdaira</b> Japan Advanced Institute of Science and Technology, Japan
15:30-16:00 PM	<b>SESSION BREAK</b>	
<b>Tuesday June 11</b>	<b>Room D: Session 8 (General)</b>	
	<b>Chair: Keisuke Ohdaira</b>	
16:00 – 16:30 PM	Recent Progresses in Protein Crystallogensis in NWPU	<b>Da-Chuan Yin</b> Northwestern Polytechnical University, China
16:30 – 17:00 PM	Crystal growth and evolution of calcium pyrophosphates of biological interest	<b>Christele Combes</b> Universitaire de Recherche et d'Ingénierie des Matériaux, France
17:00 – 17:30 PM	Growth and Assembly of Collagen on Surfaces	<b>Cristian V. Ciobanu</b> Colorado School of Mines, USA
17:30 – 18:00 PM	Cell adhesion on diamond: crystallinity matters	<b>Robert Edgington</b> University College London, United Kingdom
<b>3CG 2013 Meeting June 12</b>		
<b>7:30 – 8:30</b>	<b>Breakfast and Poster</b>	
<b>Wednesday June 12</b>	<b>Room D: Session 9 (General)</b>	
	<b>Chair: Jun-ichi Kushibiki</b>	
8:30 – 9:00 AM	Investigation of Surface Kinetics and Three-dimensional Transport Phenomena in Aqueous Solution Crystal Growth Processes using Laser-based Imaging Techniques	<b>Atul Srivastava</b> Indian Institute of Technology Bombay, India

Conference Program Schedule Room D – 3CG 2013 Meeting

9:00 – 9:30 AM	Flow chemistry technology and applications in continuous crystallization	<b>Xiongwei Ni</b> Heriot-Watt University, United Kingdom
9:30 – 10:00 AM	Alkaline-earth borates & oxides: wet-chemistry based thermal conversion route synthesis, properties and applications.	<b>Wancheng Zhu</b> Qufu Normal University, China
10:00 – 10:30 AM	<b>SESSION BREAK</b>	
<b>Wednesday June 12</b>	<b>Room D: Session 10 (Theory)</b>	<b>Chair: Xiongwei Ni</b>
10:30 – 11:00 AM	Structure of amorphous CaCO <sub>3</sub> precursor and its relationship to polymorphs: atomistic simulation study	<b>Hiroki Nada</b> National Institute of Advance Industrial Science and Technology, Japan
11:00 – 11:30 AM	A 3-D cellular automaton model for dendritic growth in multi-component alloys	<b>Jiuzhou Zhao</b> Chinese Academy of Sciences, China
11:30 – 12:00 AM	How to analyze crystals by ultrasonic microspectroscopy	<b>Jun-ichi Kushibiki</b> Tohoku University, Japan
12:00 - 14:00 PM	<b>LUNCH BREAK</b>	
<b>Wednesday June 12</b>	<b>Room D: Session 11 (Theory)</b>	<b>Chair: Antonio Viviani</b>
14:00 – 14:30 PM	Discovery of Organic Conductors and Small Band-gap Semiconductors: A High Throughput DFT Study	<b>Bohdan Schatschneider</b> The Pennsylvania State University, USA
14:30 – 15:00 PM	Modeling and Optimization of the thermal design in the growth process of SiC	<b>Qi-Sheng Chen</b> Institute of Mechanics, Chinese Academy of Sciences, China
15:00 – 15:30 PM	Theoretical proposal of the crystal growth of oxide layered stack structures with memory functions	<b>Katsumasa Kamiya</b> University of Tsukuba, Japan
15:30 – 16:00 PM	An accurate assessment of the binding energy of various alloying elements with ferrite/austenite interfaces: a recent advance in the modeling of migrating interfaces	<b>Hugo Van Landeghem</b> McMaster University, Canada

Conference Program Schedule Room D – 3CG 2013 Meeting

16:00 – 16:30 PM	<b>SESSION BREAK</b>	
<b>Wednesday June 12</b>	<b>Room D: Session 12 (Theory)</b>	<b>Chair: Katsumasa Kamiya</b>
16:30 – 17:00 PM	Burnett Equations for Fluid Flow Modelling in Vapour Crystal Growth	<b>Antonio Viviani</b> Seconda Universita di Napoli, Italy
17:00 – 17:30 PM	Effects of temperature and flow in nucleation and domain growth, a theoretical approach	<b>Iván Santamaría-Holek</b> Universidad Nacional Autónoma de México, Mexico
17:30 – 18:00 PM	Determination of specific surface free energy of inorganic crystal using contact angle of liquid	<b>Takaomi Suzuki</b> Shinshu University, Japan
<b>Thursday June 13</b>	<b>Social Network Events</b>	

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<p><b>Conference Onsite Registration</b></p> <p><b>The Westin Resort &amp; Spa</b></p> <p><b>14:00 - 18:00 PM</b></p> <p><b>June 9</b></p>		
<p><b>Posters</b></p>		
P1	Carbon Nanotubes Noncovalently Functionalized with Human Serum Albumin as Supports for Silver Nanoparticles	<b>A. Rodríguez-Galván</b> Universidad Nacional Autónoma de México, Mexico
P2	C60 Fullerene Covalently Functionalized with Aromatic Amine Molecules in the Gas Phase	<b>V. Meza-Laguna</b> Universidad Nacional Autónoma de México, Mexico
P3	Covalent Functionalization of Carbon Nanomaterials with Crown Ethers	<b>L. V. Henao-Holguín</b> Universidad Nacional Autónoma de México, Mexico
P4	Interaction of Silver Nanoparticles with Short Peptides: A DFT Study	<b>F. F. Contreras-Torres</b> Universidad Nacional Autónoma de México, Mexico
P5	Functionalization of Multi-Walled Carbon Nanotubes and Buckypaper with Aromatic Amines	<b>I. J. Ramírez-Calera</b> Universidad Nacional Autónoma de México, Mexico
P6	Noncovalent Functionalization of Carbon Nanotubes with a Ni(II) Tetraaza[14] annulene Complex	<b>V. Henao-Holguín</b> Universidad Nacional Autónoma de México, Mexico

Conference Program Schedule Poster – 3CG 2013 Meeting

		Mexico
P7	Noncovalent Nanohybrid of Graphene with a Ni(II) Tetraaza[14]annulene Complex	<b>M. Martínez-Herrera</b> Universidad Nacional Autónoma de México, Mexico
P8	Specific Surface Free Energy and Morphology of Barium Chlorapatite Single Crystals	<b>Mika Yoshida</b> Shinshu University, Japan
P9	Influence of silver deficiency and excess on quality, dielectric properties and phase transitions of AgNbO <sub>3</sub>	<b>Antoni Kania</b> Zakład Fizyki Ferroelektryków Uniwersytecka, Katowice
P10	Optical transmission of Er <sup>3+</sup> ions excited by white light via square nanohole arrays	<b>V.A.G. Rivera</b> Universidade de São Paulo Brazil
P11	Cadmium telluride nanostructures by Electrochemical Synthesis	<b>Ramesh S. Kapadnisa</b> University of Pune, India
P12	Single crystals of alkali metal halides with reduced concentration of oxide impurities. The use of precipitating deoxidization by cation dopants	<b>V.L.Cherginets</b> National Academy of Sciences of Ukraine, Ukraine