

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

7:20 – 8:20	Breakfast	
Monday June 10 8:20 - 8:30 AM	Opening	
Monday June 10	ROOM A: Session 1 (MBE)	Chair: Ikai Lo
8:30 – 9:00 AM	Electrical properties of fullerene doped GaAs pin diodes grown by MBE	Jiro Nishinaga 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	Nobuhiko Ozaki Wakayama University, Japan
9:30 – 10:00 AM	MBE growth of high-dispersive mirrors for sub-picosecond lasers	Agata Jasik Institute of Electron Technology, Poland
10:00 – 10:30 AM	SESSION BREAK	

Conference Program Schedule Room A –3CG 2013 Meeting

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

Conference Program Schedule Room A –3CG 2013 Meeting

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

Conference Program Schedule Room A –3CG 2013 Meeting

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

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9:30 – 10:00 AM	Crystal growth and optoelectronics in quantum nanostructures on nonpolar oxides	Hiroaki Matsui University of Tokyo, Japan
10:00 – 10:30 AM	SESSION BREAK	
Wednesday June 12	ROOM A: Session 10 (General)	Chair: Hiroaki Matsui
10:30 – 11:00 AM	Laser processed substrate for stress reduction in hetero-epitaxy	Hideo Aida President of R&D at Namiki Precision Jewel Co. LTD, Japan
11:00 – 11:30 AM	Colloidal Heterostructured Nanocrystals: Synthesis, Properties and Applications	P. Davide COZZOLI Universit� del Salento, Italy
11:30 – 12:00 AM	Direct Growth of porous hollow palladium nanoparticles on ITO substrate using LPD process	Aamna Balouch University Kebangsaan Malaysia, Malaysia
12:00 - 14:00 PM	LUNCH BREAK	
Wednesday June 12	ROOM A: Session 11 (Nanowires)	Chair: Harris Wong
14:00 – 14:30 PM	Growth of nanowires by high temperature glancing angle disposition	Motofumi Suzuki Kyoto University, Japan
14:30 – 15:00 PM	MOVPE self-assembly of III-V nanowires: advances in growth control and device fabrication	Paola Prete 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	Stefano Filo Ambrosini Universit� di Trieste, Italia
15:30 – 16:00 PM	SESSION BREAK	
Wednesday June 12	ROOM A: Session 12 (Nanowires)	Chair: Paola Prete
16:00 – 16:30 PM	Growth controlled of monocrystalline V ₂ O ₅ nanowires by solvothermal reduction	Patricia Santiago Universidad Nacional Aut�noma de M�xico, 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	Akrajas Ali Umar Universiti Kebangsaan Malaysia, Malaysia
17:00 – 17:30 PM	Energetic instability of micro and nano wires and films	Harris Wong Louisiana State University, USA
17:30 – 18:00 PM	A universal maskless fabrication of surface nancone arrays and its wide-ranging application	Junjie Li Chinese Academy of Sciences, China
Thursday June 13	Social Network Events	

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

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

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17:30 – 18:00 PM	The crystal growth of ZrO ₂ and iron oxide nanostructures with different crystalline structures	Yi-Feng Lin Chung Yuan Christian University, Taiwan
3CG 2013 Meeting June 11		
7:30 – 8:30	Breakfast and Poster	
Tuesday June 11	Room B: Session 5 (Nano Device)	Chair: Alexandra Pena Revellez
8:30 – 9:00 AM	Piezotronics and Piezo-phototronics	Zhong Lin Wang Georgia Institute of Technology, USA
9:00 – 9:30 AM	3-dimensional nano structures for photonics devices	Jong-Lam Lee Pohang University of Science and Technology, Korea
9:30 – 10:00 AM	Metal Oxide Nanowires: Thier Properties and Device Applications	Takeshi Yanagida Osaka University, Japan
10:00 – 10:30 AM	SESSION BREAK	
Tuesday June 11	Room B: Session 6 (Oxide)	Chair: Takeshi Yanagida
10:30 – 11:00 AM	Superionic Conducting Glass-Ceramics of Silicophosphates: Crystallization Kinetics and Conduction Properties	Toshinori Okura Kogakuin University, Japan
11:00 – 11:30 AM	Atomic and electronic structure of Mn-doped Ga ₂ O ₃ thin film and interface with MgAl ₂ O ₄ substrate	Hiroyuki Hayashi Kyoto University, Japan
11:30 – 12:00 AM	Periodically domain-structured KTiOPO ₄ crystals grown from high temperature solution	Alexandra Pena Revellez Institut Néel – CNRS / UJF, France
12:00 – 14:00 PM	LUNCH BREAK	
Tuesday June 11	Room B: Session 7 (Oxide Thin Film)	Chair: S.M. Koohpayeh
14:00 – 14:30 PM	Oxide thin film growth by pulsed laser deposition: Effects of postannealing.	Kosuke Matusuzaki 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	Huseyin Derin Adnan Menderes University, Turkey
15:00 – 15:30 PM	Growth of Mn-doped ZnO films on various substrates by rf-sputter deposition	Noriaki Matsunami Meijo University, Japan
15:30 – 16:00 PM	SESSION BREAK	
Tuesday June 11	Room B: Session 8 (Oxide)	Chair: Noriaki Matsunami
16:00 – 16:30 PM	Energy enhanced deposition of thin nanocrystalline films: morphology of GaN and TiO ₂ films grown by reactive sputtering	Douglas Marcel Gonçalves Leite Univ. Estadual Paulista – UNESP, Brazil
16:30 – 17:00 PM	Electron localization in anatase and rutile TiO ₂	Cesare Franchini University of Vienna, Austria
17:00 – 17:30 PM	Floating Zone Crystal Growth of Functional Oxides	S.M. Koohpayeh Johns Hopkins University, USA
17:30 – 18:00 PM	Growth of Cu: SnO ₂ Films via Spray Pyrolysis and their Study towards LPG and H ₂ S sensor	Kishor M. Sonawane Fergusson College, India
3CG 2013 Meeting June 12		
7:30 – 8:30	Breakfast and Poster	
Wednesday June 12	Room B: Session 9 (Photovoltaic)	Chair: Ajmal Khan
8:30 – 9:00 AM	Advances in Chalcopyrite type AgInSe ₂ semiconductor for Photovoltaic Applications	Dinesh Pathak University of Pardubice, Czech Republic
9:00 – 9:30 AM	Growth, physical and photo-electrical properties of solid solutions CuInS ₂ -ZnIn ₂ S ₄	Vaidotas KAŽUKAUSKAS Vilnius University, Lithuania

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9:30 – 10:00 AM	Growth of ternary structure CuInS ₂ semiconductor nanocrystals and their applications	Duk Young Jeon Korea Advanced Institute of Science and Technology, Korea
10:00 – 10:30 AM	SESSION BREAK	
Wednesday June 12	Room B: Session 10 (Photovoltaic)	Chair: Vaidotas KAŽUKAUSKAS
10:30 – 11:00 AM	Engineering of Impurity doped p-n junction for High Efficiency Semiconducting BaSi ₂ based Thin Film Solar Cells	Ajmal Khan 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	Diouma Kobor University of Ziguinchor, Senegal
11:30 – 12:00 AM	New strategies to enhance mono-lithic and nano-film electrodes in solar conversion processes	Hikmat S. Hilal An-Najah N. University, Palestine
12:00 – 14:00 PM	LUNCH BREAK	
Wednesday June 12	Room B: Session 11 (Energy)	Chair: Fabio A. Ferri
14:00 – 14:30 PM	First steps of the semiconductor nanostructure formation	Gregorio Hernández Cocolezzi University City - BUAP, Mexico
14:30 – 15:00 PM	Hydrothermally grown nanomaterials for efficient light harvester	Sawanta S. Mali Shivaji University, India
15:00 – 15:30 PM	Designing nanocomposite anodes for Li-ion batteries	Alexey Glushenkov Deakin University, Australia
15:30 – 16:00 PM	SESSION BREAK	
Wednesday June 12	Room B: Session 12 (Semiconductor)	Chair: Alexey Glushenkov
16:00 – 16:30 PM	Mesoscopic materials grown by MOCVD for thermoelectric power generation: Semiconductor nanowire networks and semi-metallic/semiconductor	Nobuhiko P. Kobayashi 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	Fabio A. Ferri University of Arkansas, USA
17:00 – 17:30 PM	Epitaxial growth of vertical III-V semiconductor nanowires on Si and graphene	Helge Weman Norwegian University of Science and Technology, Norway
17:30 – 18:00 PM	Upcoming	William Alan Doolittle Georgia Institute of Technology, USA
Thursday June 13	Social Network Events	

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<p>3CG 2013 Meeting June 10</p>		
7:20 – 8:20	<p>Breakfast</p>	
<p>Monday June 10 8:20 - 8:30 AM</p>	<p>Opening</p>	
<p>Monday June 10</p>	<p>Room C: Session 1 (General)</p>	<p>Chair: Hiroshi Fujioka</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>Michal Bockowski 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>Santa Chawla CSIR – National Physical Laboratory, India</p>
9:30 – 10:00 AM	<p>Crystal growth for super high-efficiency multi-junction Solar cells</p>	<p>Yoshio Ohshita Toyota Technological Institute, Japan</p>
10:00 – 10:30 AM	<p>SESSION BREAK</p>	

Conference Program Schedule Room C – 3CG 2013 Meeting

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

Conference Program Schedule Room C – 3CG 2013 Meeting

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

Conference Program Schedule Room C – 3CG 2013 Meeting

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

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

Conference Program Schedule Room C – 3CG 2013 Meeting

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

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<p>3CG 2013 Meeting June 10</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	Jürg Hullige University of Berne, Switzerland
9:00 – 9:30 AM	Advanced properties of spin-photonic crystals and metamaterials	YoungPak Lee Hanyang University, Korea
9:30 – 10:00 AM	Molecular “photomagnetic” conductors	Toshio Naito 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	S.J.Joshi Government Science College, India
11:00 – 11:30 AM	Orientation control in multi-component metallic alloy during solidification	Jianguo Li 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	Tie Liu Northeastern University, China
12:00 - 14:00 PM	LUNCH BREAK	
Monday June 10	Room D: Session 3 (Molecular)	Chair: Shouke Yan
14:00 – 14:30 PM	Upcoming	Yong-Hoon Cho Korea Advanced Institute of Science and Technology (KAIST), Korea
14:30 – 15:00 PM	Growth and characterization of amino acid doped potassium dihydrogen phosphat	K.D. Parikh M. P. Shah Arts & Science College, India
15:00 – 15:30 PM	Growth behaviors of inorganic functional materials	Dongfeng Xue Changchun Institute of Applied Chemistry, CAS, China
15:30 – 16:00 PM	SESSION BREAK	
Monday June 10	Room D: Session 4 (Chemical)	Chair: Dongfeng Xue
16:00 – 16:30 PM	Structure and dynamics of multifunctional materials with neutron scatterings	Dehong Yu Australian Nuclear Science and Technology Organisation, Australia
16:30 – 17:00 PM	Weak Intramolecular Hydrogen Bonding in Aromatic Molecules. A Crystallographic Investigation	Zhanting Li Fudan University, China
17:00 – 17:30 PM	Crystallization growth of polymers on oriented substrates	Shouke Yan Beijing University of Chemical Technology, China

Conference Program Schedule Room D – 3CG 2013 Meeting

17:30 – 18:00 PM	Upcoming	Jian-Feng Yang Xi'An Jiao Tong University, China
3CG 2013 Meeting June 11		
7:30 – 8:30	Breakfast and Poster	
Tuesday June 11	Room D: Session 5 (General)	Chair: Seungho Park
8:30 – 9:00 AM	Destabilization of convection in Czochralski melt flow by slow rotation and by low-amplitude oscillations of crucible wall temperature	Alexander Gelfgat Tel Aviv University, Israel
9:00 – 9:30 AM	Sublimation growth of the 3C-SiC on hexagonal SiC substrates	Alexander Lebedev 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	Alicia Esther Ares National University of Misiones, Argentina
10:00 – 10:30 AM	SESSION BREAK	
Tuesday June 11	Room D: Session 6 (General)	Chair: Alicia Esther Ares
10:30 – 11:00 AM	Use of Low-Phonon Crystalline Hosts for Rare Earth-Doped Mid-infrared Lasers and Phosphors	Joseph Ganem 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	Seungho Park Hongik University, Korea
11:30 – 12:00 AM	Assessment of a nanocrystal 3D morphology by the analysis of single HAADF-HRSTEM images	Antonio J. Ramirez Brazilian Nanotechnology National Laboratory, Brazil
12:00 – 14:00 PM	LUNCH BREAK	
Tuesday June 11	Room D: Session 7 (General)	Chair: Robert Edgington

Conference Program Schedule Room D – 3CG 2013 Meeting

14:00 – 14:30 PM	Upcoming	Igor Levchenko CSIRO Materials Science and Engineering, Australia
14:30 – 15:00 PM	Upcoming	Jinghua Fang CSIRO Materials Science and Engineering, Australia
15:00 – 15:30 PM	Upcoming	Keisuke Ohdaira Japan Advanced Institute of Science and Technology, Japan
15:30-16:00 PM	SESSION BREAK	
Tuesday June 11	Room D: Session 8 (General)	
	Chair: Keisuke Ohdaira	
16:00 – 16:30 PM	Recent Progresses in Protein Crystallogensis in NWPU	Da-Chuan Yin Northwestern Polytechnical University, China
16:30 – 17:00 PM	Crystal growth and evolution of calcium pyrophosphates of biological interest	Christele Combes Universitaire de Recherche et d'Ingénierie des Matériaux, France
17:00 – 17:30 PM	Growth and Assembly of Collagen on Surfaces	Cristian V. Ciobanu Colorado School of Mines, USA
17:30 – 18:00 PM	Cell adhesion on diamond: crystallinity matters	Robert Edgington University College London, United Kingdom
3CG 2013 Meeting June 12		
7:30 – 8:30	Breakfast and Poster	
Wednesday June 12	Room D: Session 9 (General)	
	Chair: Jun-ichi Kushibiki	
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	Atul Srivastava 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	Xiongwei Ni Heriot-Watt University, United Kingdom
9:30 – 10:00 AM	Alkaline-earth borates & oxides: wet-chemistry based thermal conversion route synthesis, properties and applications.	Wancheng Zhu Qufu Normal University, China
10:00 – 10:30 AM	SESSION BREAK	
Wednesday June 12	Room D: Session 10 (Theory)	Chair: Xiongwei Ni
10:30 – 11:00 AM	Structure of amorphous CaCO ₃ precursor and its relationship to polymorphs: atomistic simulation study	Hiroki Nada 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	Jiuzhou Zhao Chinese Academy of Sciences, China
11:30 – 12:00 AM	How to analyze crystals by ultrasonic microspectroscopy	Jun-ichi Kushibiki Tohoku University, Japan
12:00 - 14:00 PM	LUNCH BREAK	
Wednesday June 12	Room D: Session 11 (Theory)	Chair: Antonio Viviani
14:00 – 14:30 PM	Discovery of Organic Conductors and Small Band-gap Semiconductors: A High Throughput DFT Study	Bohdan Schatschneider The Pennsylvania State University, USA
14:30 – 15:00 PM	Modeling and Optimization of the thermal design in the growth process of SiC	Qi-Sheng Chen 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	Katsumasa Kamiya 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	Hugo Van Landeghem McMaster University, Canada

Conference Program Schedule Room D – 3CG 2013 Meeting

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

<p>3CG 2013 MEETING</p> <p>June 10-13, 2013</p> <p>The Westin Resort & Spa, Cancun, Mexico</p>		
<p>Conference Onsite Registration</p> <p>The Westin Resort & Spa</p> <p>14:00 - 18:00 PM</p> <p>June 9</p>		
<p>Posters</p>		
P1	Carbon Nanotubes Noncovalently Functionalized with Human Serum Albumin as Supports for Silver Nanoparticles	A. Rodríguez-Galván Universidad Nacional Autónoma de México, Mexico
P2	C60 Fullerene Covalently Functionalized with Aromatic Amine Molecules in the Gas Phase	V. Meza-Laguna Universidad Nacional Autónoma de México, Mexico
P3	Covalent Functionalization of Carbon Nanomaterials with Crown Ethers	L. V. Henao-Holguín Universidad Nacional Autónoma de México, Mexico
P4	Interaction of Silver Nanoparticles with Short Peptides: A DFT Study	F. F. Contreras-Torres Universidad Nacional Autónoma de México, Mexico
P5	Functionalization of Multi-Walled Carbon Nanotubes and Buckypaper with Aromatic Amines	I. J. Ramírez-Calera Universidad Nacional Autónoma de México, Mexico
P6	Noncovalent Functionalization of Carbon Nanotubes with a Ni(II) Tetraaza[14] annulene Complex	V. Henao-Holguín 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	M. Martínez-Herrera Universidad Nacional Autónoma de México, Mexico
P8	Specific Surface Free Energy and Morphology of Barium Chlorapatite Single Crystals	Mika Yoshida Shinshu University, Japan
P9	Influence of silver deficiency and excess on quality, dielectric properties and phase transitions of AgNbO ₃	Antoni Kania Zakład Fizyki Ferroelektryków Uniwersytecka, Katowice
P10	Optical transmission of Er ³⁺ ions excited by white light via square nanohole arrays	V.A.G. Rivera Universidade de São Paulo Brazil
P11	Cadmium telluride nanostructures by Electrochemical Synthesis	Ramesh S. Kapadnisa 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	V.L.Cherginets National Academy of Sciences of Ukraine, Ukraine