



## Program ICAMN2011 Kathmandu Nepal

October 20, 2011 (Thursday)

Registration 14:00-16:30

<b>16:30-17:15</b>	<b>Opening Ceremony</b>
17:15-17:40	<b>Special lecture</b>
	<b>Prof. Sukekatsu Ushioda</b> (President, National Institute for Materials Science, Japan)
17:40-17:45	Break
17:45-18:30	Welcome reception

### October 21, 2011 (Friday)

<b>Time</b>	<b>Plenary Lecture: Main Hall</b>
8:30-9:15 (PL1)	<b>Chair: R. R. Pradhananga</b> <b>O. Glatter:</b> Hierarchically organized nanostructured lipid materials
9:15-10:00 (PL2)	Chair: O. Glatter <b>N. Miura:</b> Application of pulsed high magnetic fields for the investigation of novel advanced materials
10:00-10:10	<b>Coffee break</b>

#### Parallel sessions

<b>Time</b>	<b>Symposium A (Main Hall)</b>
	<b>Chairs: R. R. Pradhananga, and N. Miura</b>
10:10-10:45 (KL)	<b>M. Sharon:</b> Theoretical approach to nanotechnology and its application
10:45-11:10 (IL)	<b>H. Zhang:</b> LaB6 field emission gun: Making a decades old dream come true with nanotechnology
11:10-11:35 (IL)	<b>A. Boczkowska:</b> Advanced polymer matrix nanocomposites
11:35-12:00 (IL)	<b>S-M. Choi:</b> Neutron and X-ray scattering investigation of hierarchical self-assembly of one-dimensional nanoparticles in soft matter
12:00-12:15 (OL06)	<b>Q. Ji:</b> Graphene/ionic liquid LBL films for selective sensing of organic vapors
12:15-13:30	<b>Lunch break</b>

<b>Time</b>	<b>Symposium B (Shivapuri Hall)</b>
	<b>Chairs: M. B. Gewali and K. Aramaki</b>
10:10-10:45 (KL)	<b>K. Ariga :</b> Touch nano: Hand-operating nanotechnology
10:45-11:30 (KL)	<b>C. Solans:</b> Nano-emulsions prepared by low-energy methods as templates for nano-biomaterials
11:30-11:55 (IL)	<b>K. Miyazawa:</b> Synthesis of fullerene nanowhiskers, nanotubes and nanosheets by LLIP method and their properties and applications
11:55-12:10 (OL05)	<b>S. C. Sharma:</b> A nonaqueous liquid crystal emulsion: Fluorocarbon oil in a hexagonal phase in an ionic liquid

12:10-12:25 (OL74)	<b>A.K. Panda:</b> Synthesis and characterization of nanoparticles of silver bromide in aqueous media
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12:25-13:30 **Lunch break**

Time	Special Session for Young Scientist (Symposium H: Sakura Hall) Chairs: A. P. Yadav, B. Lindman
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10:10-10:25 (OL10)	<b>R. N. Dhital:</b> Bimetallic gold/palladium nanoclusters catalyse the Suzuki-Miyaura cross-coupling chloroarenes at room temperature under aqueous conditions
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10:25-10:40 (OL15)	<b>R.G. Shrestha:</b> Structure and dynamics of self-healing formulation in cholesteryl ether surfactant system
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10:40-10:55 (OL17)	<b>S. K. Shah:</b> Conductometric studies on the effect of KCl on the micellization of cetyltrimethylammonium bromide (CTAB) in methanol-water mixed solvent media at three different temperatures
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10:55-11:10 (OL22)	<b>W. Karuehanon:</b> Toluene oxidation using iron N-containing polymer complexes as catalyst
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11:10-11:25 (OL23)	<b>N. Phutthawong:</b> Preparation of spherical molecular imprinted polymer by ultrasonic-assisted polymerization
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Time	Special Session for Young Scientist (Symposium H: Sakura Hall) Chairs: R.N. Jha and D. Danino
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11:25-11:40 (OL40)	<b>K. N. Poudyal:</b> Estimation of the daily global solar radiation by using BC, CD, DB, and modular DCBB models in Kathmandu
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11:40-11:55 (OL58)	<b>A. Rajbhandari (Nyachhoyon):</b> Low cost electrochemical sensors for iodide, bromide and chloride ions
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11:55-12:10 (OL59)	<b>S. Joshi:</b> Adsorption of fluoride from water by activated carbon
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12:10-12:25 (OL60)	<b>R. M. Shrestha:</b> Adsorption behavior of Pb(II) onto low cost activated carbon prepared from Lapsi seed ston ( <i>Choreospondias axillaris</i> )
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12:25-12:40 (OL61)	<b>R. Rajbhandari:</b> Preparation and characterization of activated charcoal from Lapsi seed stone
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12:40-13:30 **Lunch break**

Time	Symposium C (Main Hall) Chairs: A. P. Yadav, and N. Ohashi
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13:30-14:05 (KL)	<b>D. Pergolesi:</b> On the ionic conductivity of YSZ-CeO <sub>2</sub> coherent hetero-interfaces
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14:05-14:30 (IL)	<b>N. K. Shrestha:</b> Metal-organic-frameworks as energy harvesting and storing materials
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14:30-15:55 (IL)	<b>G. Wilson:</b> Printed solar cells-an Australian perspective
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15:55-15:10 (OL 16)	<b>P. Shrestha:</b> The corrosion behavior of the sputter-deposited W-xZr alloys in 0.5M NaCl solution
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15:10-15:25 (OL43)	<b>H. K Dubey:</b> Synthesis of antimony sulphoiodide by CVD and its characterization
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15:25-15:30 **Coffee break**

Time	Symposium D (Shivapuri Hall) Chairs: M. R. Pokhrel and C. Solans
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13:30-14:05 (KL)	<b>M. Shibayama:</b> Small-angle neutron scattering: a powerful tool for nanostructure characterization of soft materials
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14:05-14:30 (IL)	<b>J-D Kim:</b> pH sensitive hairy nanogel
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14:30-15:55 (IL)	<b>R. Adhikari:</b> Synthesis and properties of in-situ cure biodegradable polyurethanes
15:55-15:10 (OL67)	<b>J. Giri:</b> Effect of filler content on morphology and mechanical properties of sisal flour based thermoplastics composites
15:10-15:25 (OL72)	<b>R. Pandit:</b> Investigations into the effect of mid-block epoxidation of SBS triblock copolymers on their morphology and mechanical properties
15:25-15:30	<b>Coffee break</b>

<b>Time</b>	<b>Symposium B and F (Sakura Hall) Chairs: K. N. Ghimire and M. Miguel</b>
13:30-14:05 (KL)	<b>J.P. Hill:</b> Self-assembly of organic chromophores: surfaces, biomimetics and molecular electronic materials
14:05-14:30 (IL)	<b>H. R. Sharma:</b> Quasicrystalline thin film of single elements and molecules grown on surfaces of a new quasicrystal
14:30-14:45 (OL01)	<b>M. H. Kim:</b> Flurbiprofen-layered double hydroxide nanohybrid for controlled-release formulation of transdermal drug delivery
14:45-15:00 (OL51)	<b>A. Bhattarai:</b> Electrical conductances of sodium polystyrenesulfonate in methanol-water mixed solvent media in presence of sodium chloride at 308.15, 318.15 and 323.15K
15:00-15:15 (OL79)	<b>J. Lamichhane:</b> Extraction and bioactivity measurement of seven important high altitude medicinal plants of Nepal
15:15-15:30 (OL12)	<b>S. Lodha:</b> Use of iron complex system as a photocatalyst for treatment of methylene blue containing wastewater
15:30-15:35	<b>Coffee break</b>

<b>Time</b>	<b>Symposium C (Main Hall) Chairs: J. Bhattarai and M. Sharon</b>
15:30-16:05 (KL)	<b>N. Ohashi:</b> Oxide semiconductors for optical and electronic applications
16:05-16:30 (IL)	<b>T. Shinohara:</b> Evaluation of atmospheric corrosion behaviors of carbon steel by ACM type corrosion behavior
16:30-16:55 (IL)	<b>V.V. Chabukswar:</b> Synthesis and characterization of poly(N-ethylaniline) nanoparticles and its application as ammonia sensor
16:55-17:10 (OL36)	<b>G. Gyawali:</b> Effect of ultrasound on the electrochemical deposition and properties of Ni-SiC nanocomposite coatings
17:10-17:25 (OL55)	<b>M.P Ghimire:</b> First principles calculation of the electronic and magnetic properties of double perovskites $\text{Sm}_2\text{MgIrO}_5$
17:25-17:40 (OL27)	<b>S. A. Lendave:</b> Effect of $\text{Sb}^{3+}$ doping on the photodetection performance of $\text{Cd}_{1-x}\text{Hg}_x\text{S}$ ( $x = 0.08$ ) based electrochemical cells
17:40-18:00	<b>Break</b>
18:00-19:15	<b>Poster session</b>

<b>Time</b>	<b>Symposium D (Shivapuri Hall) Chairs: C. Solans and O. Glatter</b>
15:30-16:05 (KL)	<b>A. Suzuki:</b> Gelation, and Erosion of physically cross-linked PVA gels
16:05-16:30 (IL)	<b>P. Ghosh:</b> Recent development in the area of lube oil additive research
16:30-16:55 (IL)	<b>Y. Tanaka:</b> Post-yielding mechanical behavior affecting toughness of yielding materials
16:55-17:20 (IL)	<b>M. Sugiyama:</b> High order structure of protein and its kinetics with deuteration-assisted small-angle neutron scattering

17:20-17:35 (OL42)	<b>H.R. Pant:</b> Formation of electrospun spider-net like nanofibrous mat for air filtration
17:35-17:50 (OL71)	<b>R. Adhikari:</b> Research activities on nanostructured polymers and advanced materials in Tribhuvan University: an overview
17:50-18:00	<b>Break</b>
18:00-19:15	<b>Poster session</b>
<b>Time</b>	<b>Symposium A (Sakura Hall) Chairs: S. Shrestha and K. Ariga</b>
15:35-16:10 (KL)	<b>N. Saito:</b> Nanostructured materials and surfaces by plasma processing
16:10-16:35 (IL)	<b>S. W. Lee:</b> Synthesis of photocatalytic nanomaterials by microwave and sonochemical methods
16:35-17:00 (IL)	<b>Y-Y Song:</b> Highly uniform Pt nanoparticles decoration on TiO <sub>2</sub> nanotube arrays: A refreshable platform for methanol electrooxidation and nonenzymatic glucose detection
17:00-17:15 (OL 09)	<b>G. Bisht:</b> Supercritical CO <sub>2</sub> processed magnetic nanocomposite for protein release
17:15-17:30 (OL29)	<b>R.V. Suryawanshi:</b> Studies on chemically spray deposited Cu <sub>1-x</sub> In <sub>x</sub> Se <sub>2</sub> thin film layers
15:30-17:45 (OL30)	<b>P.C. Pingale:</b> Liquid phase chemical deposition of high tech. ZnSe thin films
17:45-18:00	<b>Break</b>
18:00-19:15	<b>Poster session</b>

### List of Posters

- P01** **Anjeeta Duwadi** (Central Dept. of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
Email: khadkadeba@yahoo.com
- P02** **Indira Kafle** (Central Dept. of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
Email: khadkadeba@yahoo.com
- P03** **Shalil Khanal** (Central Dept. of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
Email: khadkadeba@yahoo.com
- P04** **Bharat Dhital** (Central Dept. of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
Email: khadkadeba@yahoo.com
- P05** **Prof. Dr. Salima Saidi-Besbes** (Oran Es Senia University, El M'naouer, Ora Algeria)  
E-mail: salima\_saidi@yahoo.fr
- P07** **Dr. Noelia M. Sanchez-Ballester** (National Institute for Materials Science, Japan)  
E-mail: SANCHEZBALLESTER.Noelia@nims.go.jp
- P08** **Tulsi Prasad Niraula** (Mahendra Morang Adarsh Multile Campus, T. U., Biratnagar, Nepal)  
Email: sujeetkumarchatterjee@yahoo.com
- P09** **Deependra Dhimi** (Dept. of Chemistry, Trichandra Campus, Tribhuvan University, Ghantaghar, Nepal)  
E-mail: deependradhimi2@yahoo.com
- P10** **Narendrapratsingh Dhimi** (Dept. of Chem., Trichandra Campus, T. U., Ghantaghar, Nepal)  
E-mail: narendrapratsinghbudhathoki@gmail.com
- P11** **Prof. Dr. Kunichi Miyazawa** (National Institute for Materials Science, Tsukuba, Japan)  
E-mail: miyazawa.kunichi@nims.go.jp

- P12 Mahesh Niraula** (Patan Multiple Campus, Tribhuvan University, Lalitpur, Nepal)  
Email: nabeenkshrestha@hotmail.com
- P13 Susil Baral** (Central Department of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
Email: bhattacharai\_05@yahoo.com
- P14 Deepak V.K. Lohani** (Department of Chemistry, Tri-Chandra M. Campus, Tribhuvan University, Kathmandu),  
Email: bhattacharai\_05@yahoo.com
- P15 Dr. V. K. Sharma** (Department of Chemistry, University of Lucknow, Lucknow, India)  
E-mail: vksharma21@hotmail.com
- P16 Shankar Khatiwada** (Central Department of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
E-mail: skradius33@yahoo.com
- P17 Alina shakya** (Central Department of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
Email: nepalpolymer@yahoo.com
- P18 N. L. Bhandari** (Central Department of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
E-mail: nepalpolymer@yahoo.com
- P19 Santosh Adhikari** (Central Department of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
Email: santoshpeace@yahoo.com
- P20 Mr. Pradip Bastola** (Central Department of Chemistry, Tribhuvan University, Kathmandu, Nepal)  
Email: spjoshi2006@gmail.com
- P21 Khemraj Barhate** (Nanotechnology Research Center, Birla College, Kalyan, India)  
Email: kbarhate@rediffmail.com
- P22 Chandradeep Prasad Yadav** (Dept. of Chem., Dhankuta Multiple Campus, T. U., Dhankuta, Nepal)  
E-mail: bkajaya@yahoo.com
- P23 K.R. Nemade** (Sant Gadge Baba Amravati University, Amravati, India)  
E-mail: krnemade@gmail.com
- P24 Dr. Gan B. Bajracharya** (Nepal Academy of Science and Technology, Khumaltar, Lalitpur, Nepal)  
E-mail: ganbajracharya@yahoo.com
- P25 Dr. S.A. Waghuley** (Sant Gadge Baba Amravati University, Amravati, India)  
Email: sandeepwaghuley@sgbau.ac.in
- P26 Indira Pokhrel** (Central Dept. of Chemistry, Tribhuvan University, Kirtipur, Nepal)  
Email: isirindira@yahoo.com
- P27 Dr. Durga Acharya** (CSIRO Materials Science and Engineering, Bayview Avenue, Clayton, Australia)  
E-mail: Durga.Acharya@csiro.au
- P28 Niaz Ahmad Niaz** (COSMOSAT Institute of Information Technology, Islamabad, Pakistan)  
Email: niaz\_ahmed@comsats.edu.pk
- P29 Ramesh Marasini** (Central Department of Chemistry, Tribhuvan University, Kiripur, Kathmandu, Nepal)  
Email: susanjoshi68@gmail.com
- P30 Pawan Thapa** (Central Department of Chemistry, Tribhuvan University, Kiripur, Kathmandu, Nepal)  
Email: susanjoshi68@gmail.com
- P31 Umesh Bhattarai** (Central Dept. of Chemistry, Tribhuvan University, Kiripur, Kathmandu, Nepal)  
Email: susanjoshi68@gmail.com
- P32 Shristi Neupane** (Department of Biotechnology, Kathmandu University, Dhulikhel, Kavre, Nepal)  
Email: ljanardan@ku.edu.np

## October 22, 2011 (Saturday)

Time	Plenary Lecture: Main Hall
8:45-9:30 (PL3)	<b>Chair: N. Miura</b> <b>B. Lindman:</b> Cellulose and cellulose derivatives: Solubility, interactions with cosolutes, phase separation and deposition
9:30-9:40	<b>Coffee break</b>

### Parallel sessions

Time	Symposium E and F (Main Hall) Chairs: D. Khadka, P.B. Neupane and B. Lindman
9:40-10:15 (KL)	<b>D. Chan:</b> Novel results from dynamic force measurements using the atomic force microscopy
10:15-10:50 (KL)	<b>J-H Choy:</b> Advanced functional nano-bio hybrid materials for imaging, targeting, and drug delivery
10:50-11:15 (IL)	<b>M. Sharon:</b> Synaptic drug delivery for cancer therapy: Role of cysteamine-folate conjugated gold nanoparticles in delivery of doxorubicin
11:15-11:30 (OL26)	<b>S. Murtaza:</b> A convincing strategy for the synthesis of Cobalamin derivatives
11:30-11:45 (OL31)	<b>S. Chatterjee:</b> Photovoltaic characterization of dye-sensitized solar cells with natural dyes using synthesized ZnO nanostructures
11:45-12:00 (OL 44)	<b>A.B. Chourasia:</b> A comparative study of structural and thermal properties of polythiophene doped with FeCl <sub>3</sub> and iodine
12:00-13:00	<b>Lunch break</b>

Time	Symposium B and D (Shivapuri Hall) Chairs: Rameshwar Adhikari and A. Suzuki
9:40-10:15 (KL)	<b>D. Danino:</b> Spatial and temporal organization of soft condensed matter: Insight from Cryo-TEM
10:15-10:50 (KL)	<b>K. Aramaki:</b> Oil-in-liquid crystal (O/LC) emulsions: Gel-like properties and transparency control
10:50-11:15 (IL)	<b>J. Esquena:</b> Preparation of nanostructured porous materials using highly concentration emulsions as templates
11:15-11:40 (IL)	<b>Y. Tanaka:</b> Enthalpy relaxation in relation to glass transition for comb-like polymer: Structural relaxation as expressed by entropy model
11:40-11:55 (OL02)	<b>K. Ryoei:</b> Raman spectroscopy investigation on the structural change of heat-treated photopolymerized fullerene nanowhiskers
12:00-13:00	

Time	Symposium G (Sakura Hall) Chairs: V. K. Jha, J-H. Choy and T. P. Pathak
9:40-10:05 (IL)	<b>J-I. Matsushita:</b> Environmental material using Na-bentonite with sodium polyacrylate for tree planting of a desert are
10:05-10:30 (IL)	<b>G. Yoshikawa:</b> Highly sensitivity membrane-type surface stress sensors (MSS) and its application
10:30-10:45 (OL39)	<b>H.N. Luitel:</b> Synthesis and characterization of multicolor inorganic phosphorous and their application in displays
10:45-11:00 (OL 48)	<b>B. Shrestha:</b> Exhausted tea leaves-a low cost bioadsorbent for Copper (II) and Zn (II) removal from their aqueous solution
11:10-11:25 (OL52)	<b>P. L. Humagai:</b> Sorption of Cd(II) and Ni(II) onto chemically modified sugarcane waste for the purification of contaminated water

11:25-11:40 (OL53)	<b>J. Kaur:</b> An ecofriendly alternative for the removal of Pb (II), Cd (II) and Cu (II) from aqueous medium
11:40-11:55 (OL65)	<b>A. Kumar:</b> Nanotechnology and its applications in environmental remediation
12:00-13:00	<b>Lunch break</b>

### Parallel sessions

Time	Symposium A (Main Hall) Chairs: K. Manandhar and D. Chan
13:00-13:35 (KL)	<b>T. Imae:</b> Advanced fabrication of hybrids consisting of carbon, organic and inorganic materials promoted by nanotechnology
13:35-14:00 (IL)	<b>B. Gupta:</b> Nanoconstruction of polypropylene surface for medial application
14:00-14:15 (OL08)	<b>T. Nuchnapa:</b> Electrochemical response of dielectric composite actuators
14:15-14:30 (OL18)	<b>N. A. Naiz:</b> Synthesis and characterization pure Mg-Al alloys for hydrogen storage application
14:30-17:45	Excursion to Kathmandu valley
18:00-20:00	<b>Conference Dinner</b>

Time	Symposium C (Shivapuri Hall) Chairs: T. Shinohara and J. Williams
13:00-13:35 (KL)	<b>Y. Huang:</b> Electrochemical characteristics of an austenitic stainless steel under solution film formed in marine atmosphere
13:35-14:00 (IL)	<b>J. Williams:</b> Controlling the crystallographic polarity of wurtzite structure thin-films
14:00-14:15 (OL28)	<b>S.T. Mane:</b> Electrochemical photovoltaic studies of Cd <sub>1-x</sub> Co <sub>x</sub> S based cells
14:15-14:30 (OL47)	<b>H. K. Dubey:</b> Synthesis and characterization and electrical properties of SbSI and SbTeI
14:30-17:45	Excursion to Kathmandu valley
18:00-20:00	<b>Conference Dinner</b>

Time	Symposium F (Sakura Hall) Chairs: J-H. Choy and M. Manandhar
13:00-13:25 (IL)	<b>G. L. Hornyak:</b> Anodically formed porous aluminas for template synthesis of nanowires
13:25-13:40 (OL03)	<b>B. Khurana:</b> Formulation and application of bio-nanomaterials, photocatalytic materials
13:40-13:55 (OL07)	<b>S. K. Sengupta:</b> Synthesis, characterization and insulin-mimetic activity of nano-sized oxovanadium(IV)
13:55-14:10 (OL13)	<b>O.P. Pandey:</b> Synthesis and antimicrobial studies on nano sized La(III) and Pr(III) complexes
14:30-17:45	Excursion to Kathmandu valley
18:00-20:00	<b>Conference Dinner</b>

### Day 3 (October 23, 2011)

Time	Plenary Lecture: Main Hall
8:45-9:30 (PL3)	<b>Chair: B. Lindman</b> <b>M. B. Gewali:</b> Bioprospecting of the Himalayan conifers
9:30-9:40	Coffee break

Parallel sessions	
Time	Symposium A (Main Hall) Chairs: T. Imae and P.N. Yadav
9:40-10:15 (KL)	<b>X. Hu:</b> Exploring novel functional materials for spintronics based first principles calculation
10:15-10:40 (IL)	<b>T. Sato:</b> Hierarchically organized functionalized particles: from cellular structure of artificial red cells (HbV) to critical-like behavior of thermo-responsive micro gels
10:40-11:05 (IL)	<b>H. Sakurai:</b> Matrix effect in the <i>quasi</i> -homogeneous nanogold catalyst
11:05-11:20 (OL14)	<b>R. Ramsch:</b> Nanocomposites of superparamagnetic and biocompatible polymeric nanoparticles
11:20-11:35 (OL19)	<b>A.S. Banu:</b> Nanotoxicology: Haemocompatibility of sol-gel derived TiO <sub>2</sub> and SiO <sub>2</sub> based bionanocomposites
11:35-11:50 (OL21)	<b>N.T. Shelke:</b> Some studies on Cd1-xFexSe dilute magnetic semiconductor thin films
12:00-13:00	<b>Lunch break</b>

Time	Symposium B and A (Shivapuri Hall) Chairs: L.K. Shrestha and M. Shibayama
9:40-10:15 (KL)	<b>M. Miguel:</b> DNA association with cationic surfactants and proteins: phase behavior, gels and nanoparticles
10:15-10:40 (IL)	<b>K. Tashiro:</b> Networking of metal complexes
10:40-10:55 (OL20)	<b>S.A. Waghuley:</b> Effect of concentration of PVAc on activation energy of PANI composite films
10:55-11:10 (OL37)	<b>S.D. Gotey:</b> Synthesis and DC conductivity of PTh/CeO <sub>2</sub> nanocomposites
11:10-11:25 (OL38)	<b>H.K. Jeong:</b> Poly sodium 4-styrenesulfonate/grapheme oxide composites for supercapacitor applications
11:25-11:40 (OL45)	<b>D. P. Acharya:</b> Mesophase nanoparticles for the delivery of MRI contrast agents
12:00-13:00	<b>Lunch break</b>

Time	Symposium C (Sakura Hall) Chairs: H. Yangling and N.K Shrestha
9:40-10:05 (IL)	<b>E. Fabbri:</b> Tailoring materials for intermediate temperature solid oxide fuel cells based on ceramic proton conducting electrolytes
10:05-10:20 (OL57)	<b>D. Mishra:</b> Electrochemical preparation of antimony oxide electrode for the measurement of pH
10:20-10:35 (OL63)	<b>T. Prakash:</b> Voltage tunable dielectric properties of materials at nanoscale
10:35-10:50 (OL77)	<b>A.P. Yadav:</b> Electrochemical Quartz Crystal Microbalance Study on Electrodeposition of Pt on Au-QCM
12:00-13:00	<b>Lunch break</b>

<b>Symposium A (Main Hall)</b>	
<b>Chairs: S-M Choi and S.R. Vaidya</b>	
<b>Time</b>	
13:00-13:25 (IL)	<b>T. Nagao:</b> Electromagnetic standing waves in nano-objects
13:25-13:40 (OL62)	<b>P.N. Yadav:</b> Pt(II) complexes with 5-hydroxy-2-formylpyridine thiosemicarbazones: synthesis, characterization and antineoplastic activity
13:40-13:55 (OL 66)	<b>S. Shrestha:</b> Blue light emission from titania quantum dots supported on carboxylated single walled carbon nanotube
13:55-14:10 (OL70)	<b>N.L. Bhandari:</b> Aliphatic aromatic copolyester based composites with bamboo flour: structural characterization and biodegradability
14:10-14:30 (OL 73)	<b>S. P. Amatya:</b> Ethylene/1-octene elastomer based nanocomposites prepared by melt mixing: morphology-properties correlation
14:30-14:45 (OL75)	<b>S. Khanal:</b> Preparation and characterization of polyaniline/multiwalled carbon nanotubes (MWCNT) composites
14:45-15:00	<b>Break</b>

<b>Symposium F (Shivapuri Hall)</b>	
<b>Chairs: A. K. Singh, J.P. Hill and S. Joshi</b>	
<b>Time</b>	
13:00-13:15 (OL04)	<b>D. Arora:</b> Nanotechnological approach for oral vaccination against hepatitis B using Chitosan nanoparticles encapsulated bilosomes
13:15-13:30 (OL33)	<b>B. Rijal:</b> Development of bamboo fiber reinforced green composite based on wheat and rice flour
13:30-13:45 (OL35)	<b>K. P. Neupane:</b> <i>Denovo</i> design of heavy metal (Pb <sup>II</sup> , Cd <sup>II</sup> ) binding peptides: implications for understanding the basis of heavy metal toxicity
13:45-14:00 (OL41)	<b>R. Chand:</b> Photocatalytic decomposition of organic compounds over silanized titanium dioxide
14:00-14:15 (OL64)	<b>B. Kafle:</b> Absolute photon-induced cross-sections for electron detachment and fragmentation of Al <sup>4+</sup> cluster
14:15-14:30 (OL76)	<b>A. Pathak:</b> Synthesis of Geopolymer from Inorganic Construction Waste
14:30-14:45	<b>T. Poudel:</b> Isolation and characterization of the chemical constituents of <i>Sonchus wightianus</i> of Nepalese origin
14:30-15:10	<b>Break</b>

<b>Symposium B (Sakura Hall)</b>	
<b>Chairs: A.D. Mishra and O. Glatter</b>	
<b>Time</b>	
13:00-13:35 (KL)	<b>K. Sakamoto:</b> General theory of membrane curvature for the trafficking of PTD peptide to cross membrane
13:35-14:00 (IL)	<b>C. Gonzalez:</b> Highly concentrated emulsion with a cubic liquid crystal as the external phase: characterization and obtaining of meso/macroporous material
14:00-14:15 (OL56)	<b>A. D. Mishra:</b> Microwave-induced synthesis of some novel fungicidal pyrazole derivatives
14:15-14:30 (OL78)	<b>L. K. Shrestha:</b> Facile synthesis of C <sub>60</sub> microcrystal with diverse morphologies via liquid-liquid interfacial precipitation method
14:30-15:10	<b>Break</b>

15:10-16:25	<b>Closing of ICAMN2011 (Main Hall)</b>
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