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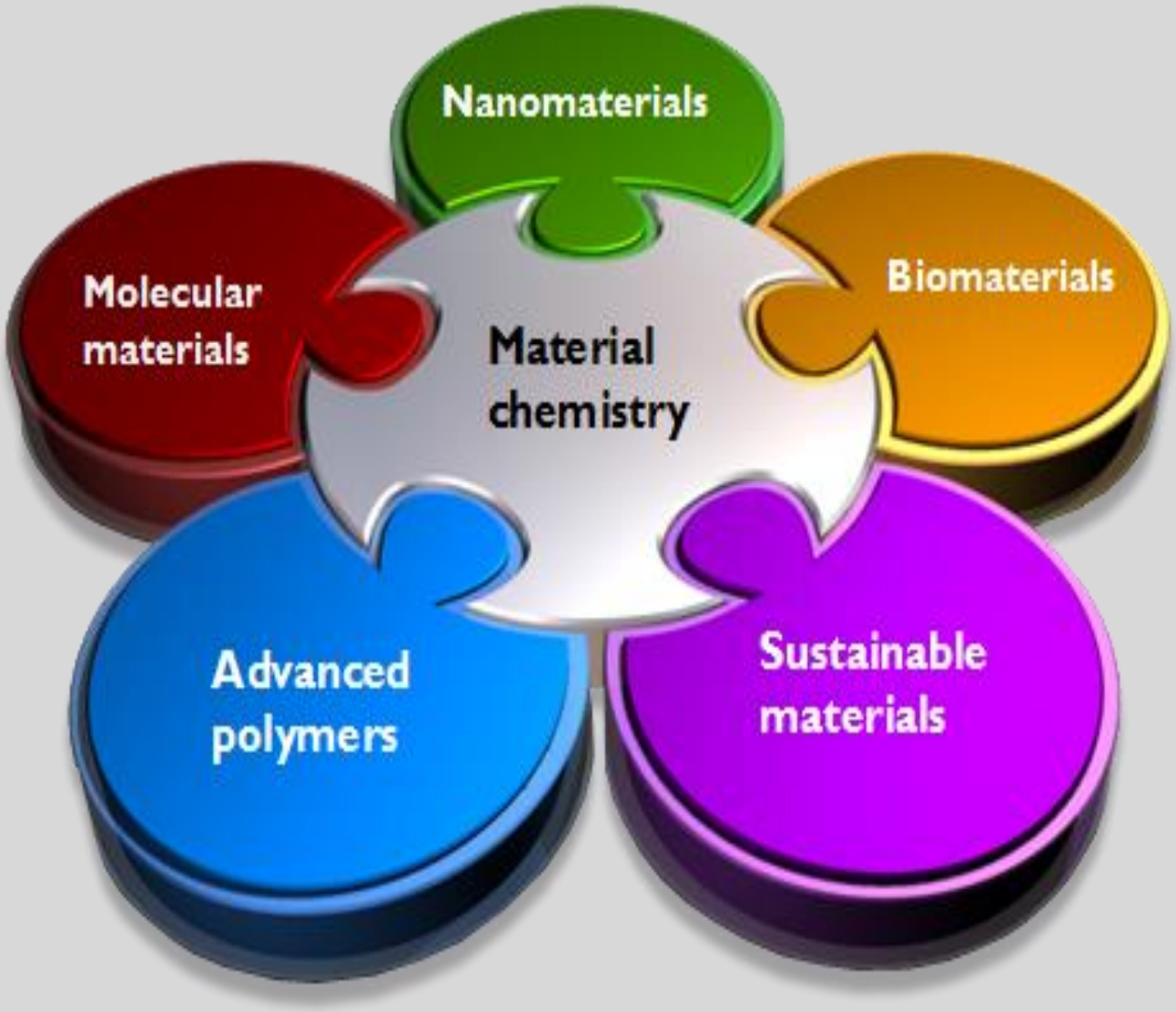
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Emerging Materials and Nanotechnology

Emerging Materials 2017

July 27-29, 2017 Vancouver, Canada

Theme: An exemplary conglomerate to savor the research in Materials Science and Nanotechnology



Conference Secretariat

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Accreditation

- *10th International Conference on Emerging Materials and Nanotechnology July 27-29, 2017 at Vancouver, BC, Canada accredited and certified by The CPD Standard Office, UK*

- *"Attendees will be certified with 25 CPD credits (25 hrs.) and also with the certification by the International Organizing Committee Members (IOCM) of the conference"*

Organizing Committee Members



Carlo Montemagno
University of Alberta
Canada



Ramesh K Agarwal
Washington University
USA



Samuel Frimpong
MUST
United States



Pavle V Radovanovic
University of Waterloo
Canada

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Gallery of Materials Science 2016

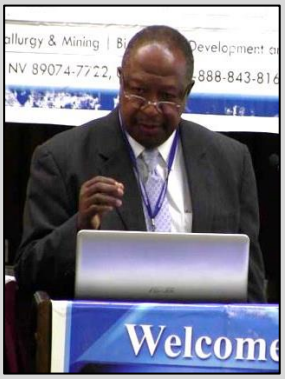
Watch Opening Ceremony Video

Materials Science 2016

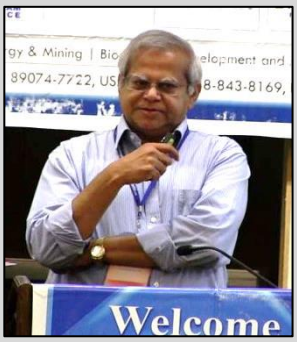
























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Emerging Materials and Nanotechnology

Emerging Materials 2017

July 27-29, 2017 Vancouver, Canada

****Note: This Program has been designed with the tentative schedule and timings. Dates and timings in this Program are subject to change at any time**

Day 1 July 27, 2017

8:00-9:30	Registrations
9:30-10:00	Opening Ceremony & Introduction

Keynote Presentations	
10:00-10:25	**Title:** Small things offer big promise
	Carlo Montemagno, University of Alberta, Canada
10:25-10:50	**Title:** Progress in semiconductor materials and processes for printed transistors
	Beng S Ong, Hong Kong Baptist University, Hong Kong
Coffee & Refreshments Break 10:50-11:05	
11:05-11:30	**Title:** Scalable functional nanocoatings
	Jas Pal Badyal, Durham University, United Kingdom
11:30-11:55	**Title:** Probing the nano-scale with the use of Nano-Opto-Mechatronics Instruments (NOMI)
	Hamed Sadeghian, TNO, Netherlands

Workshop in Emerging Materials 2017 — 11:55-12:00

Emerging nano-porous metal-organic frameworks materials for applications related to energy efficiency and environmental sustainability



Youssef Belmabkhout
KAUST, Saudi Arabia

Session I **Track 2:** Materials and Devices | **Track 4:** Nanotechnology & Emerging Technologies	
Chairs	**Anton Liopo,** The University of Texas MD Anderson Cancer Center, USA
	Jingyang Wang, Chinese Academy of Sciences, China
12:00-12:20	**Title:** Gold-based emerging nanomaterials for imaging and experimental cancer therapy
	Anton Liopo, The University of Texas MD Anderson Cancer Center, USA
12:20-12:40	**Title:** Strategic modification of nanostability for super thermal insulating materials
	Jingyang Wang, Chinese Academy of Sciences, China

12:40-13:00	**Title:** Engineering graphene and TMDCs for nanoelectronic device applications
	Moon-Ho Ham, Gwangju Institute of Science and Technology (GIST), South Korea
Lunch Break 13:00-13:50	
13:50-14:10	**Title:** Nanocarbon composites for mechanical and barrier applications
	Ken Bosnick, National Research Council Canada, Canada
14:10-14:30	**Title:** Plasmon-enhanced optoelectronic devices based on metal nanostructures
	Lin Jiang, Soochow University, China
14:30-14:50	**Title:** To explore nano world and material structure stress by X-ray nano probe at Taiwan photon source
	Shao-Chin Tseng, National Synchrotron Radiation Research Center, Taiwan
14:50-15:10	**Title:** Microneedle bio-sensor: Direct, label-free, real time detection of pH in biological cells
	Ganesh Kumar Mani, Tokai University, Japan
15:10-15:30	**Title:** Bacteria can enhance mechanical strength of a porous medium
	Swayamdipta Bhaduri, University of Alberta, Canada
Panel discussions 15:30-15:40	

Session II **Track 6:** Biomaterials and Bioinspired Materials | **Track 8:** Emerging Materials for Energy Storage | **Track 9:** Metals and Mining	
Chairs	**Samuel Frimpong,** Missouri University of Science and Technology, USA
	Aman Ullah, University of Alberta, Canada
15:40-16:00	**Title:** Tire rubber material characterization for effective structural and fatigue modeling and analysis
	Samuel Frimpong, Missouri University of Science and Technology, USA
16:00-16:20	**Title:** Rapid conversion of lipids into biopolymers and conjugates
	Aman Ullah, University of Alberta, Canada
Coffee & Refreshments Break 16:20-16:35	
16:35-16:55	**Title:** Hydroxyapatite–heparin–BMP-2 on modified titanium surfaces enhances the efficacy of bone formation and osseointegration: in vitro & in vivo study
	Deok-Won Lee, Kyung-Hee University, South Korea
16:55-17:15	**Title:** DEM modeling of oil sands materials structures
	Samuel Frimpong, Missouri University of Science and Technology, USA
17:15-17:35	**Title:** Modifying titanium surfaces with nano-sized hydroxyapatite and simvastatin can enhance bone formation and osseointegration
	Deok-Won Lee, Kyung-Hee University, South Korea
17:35-17:55	**Title:** Nano-Si: With good performance in solar cells and lithium ion batteries
	Zhihao Yue, Nanchang University, P.R. China

17:55-18:15 Panel discussions | Memento Presentation to Organizing Committee Members **Day 1 concludes…**

Speaker Slots Available
Submit your Abstract here

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Day 2 July 28, 2017	
8:00-9:30	Registrations
9:30-10:00	Introduction

Keynote Presentations	
10:00-10:25	**Title:** Digital etching of III-V semiconductors in aqueous solutions
	Jan J Dubowski, Université de Sherbrooke, Canada
10:25-10:50	**Title:** Ni-based nanomaterials for high efficiency supercapacitors in energy storage
	Hao Gong, National University of Singapore, Singapore
Coffee & Refreshments Break 10:50-11:05	
11:05-11:30	**Title:** Reliability end optimization of embedded mechatronic systems: What applications for the automotive and aeronautics industry
	Abdelkhalak EL HAMI, Normandie Université, France

Session I **Track 3:** Advanced Emerging Materials | **Track 5:** Materials: Characterization and Applications	
Chairs	**Matheus F A Goosen,** Alfaisal University, Saudi Arabia
	Krzysztof Z Sokalski, Czestochowa University of Technology, Poland
11:30-11:50	**Title:** Suspension thermal sprayed nanocomposite WC-Co coatings: nanoindentation assessment
	Matheus F A Goosen, Alfaisal University, Saudi Arabia
11:50-12:10	**Title:** Scaling a way for revealing self-similar features of materials and new applications
	Krzysztof Z Sokalski, Czestochowa University of Technology, Poland
12:10-12:20	**Title:** Laser assist break of hard and brittle materials
	Etsuji Ohmura, Osaka University, Japan

12:20-12:40	**Title:** Self-organized periodic nanostructures on the surfaces of semiconductors and dielectrics by scanning femtosecond laser pulses
	Ki-Soo Lim, Chungbuk National University, Korea
12:40-13:00	**Title:** Lanthanides-redox ligands for single molecule magnets and luminescence
	Lahcène Ouahab, CNRS, Université de Rennes 1, France
13:00-13:20	**Title:** Crystal growth of Na-Si clathrates by the flux method
	Haruhiko Morito, Tohoku University, Japan
Panel discussions 13:20-13:30	
Lunch Break 13:30-14:30	

Speaker Slots Available
Submit your Abstract here

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Poster Presentations in Emerging Materials 2017	**14:30-16:00**
EM17-01	**Title:** New bone formation & fusion relevant to timing of cranioplasty via frozen autologous bone flaps in rabbits: a preliminary report using micro-CT scans & tissue staining analysis
	Deok-Won Lee, Kyung-Hee University, South Korea
EM17-02	**Title:** Au, Ag, and Tio_2 Green synthesis and applications as antibacterial for both gram positive and gram negative strain
	Nada E Omer, University of Dammam, Saudi Arabia
EM17-01	**Title:** Number of layer dependent direct optical transition from monolayer to pentalayer in synthesized large area $MoSe_2$
	Jae-Hun Jeong, Yonsei University, South Korea
EM17-01	**Title:** Fabrication of multiplexed plasmonic nanoparticle structures based on AFM lithography
	Jianmei Chen, Soochow University, China
EM17-01	**Title:** The effect of preparation conditions on the ion-exchange properties of LTA zeolite prepared from local silica
	Samia Kosa, King Abdulaziz University, Saudi Arabia
EM17-01	**Title:** Bone regeneration enhanced by using a Gold nanoparticle–hydrogel complex
	Deok-Won Lee, Kyung-Hee University, South Korea
16:00-16:30 Best Poster Award Presentation | Memento Presentation to Organizing Committee Members **Day 2 Concludes...**	

Coffee & Refreshments Break	16:30 onwards...

Day 3 July 29, 2017

Session II **Track 3:** Advanced Emerging Materials | **Track 5:** Materials: Characterization and Applications	
Chairs	**Klaus G. Nickel,** University Tübingen, Germany
	Yet to be decided
10:00-10:20	**Title:** The potential of improving building construction materials by a biomimetic approach
	Klaus G. Nickel, University Tübingen, Germany
10:20-10:40	**Title:** Photochromic organic field-effect transistors: Molecules, device properties and laser patterning of circuits
	Yutaka Wakayama, National Institute for Materials Science (NIMS), Japan
Coffee & Refreshments Break 10:40-11:00	
11:00-11:20	**Title:** A bioinspired strategy for immobilizing silver nanoparticles towards the synthesis of antimicrobial paper
	Md.Shafiul Azam, University of Alberta, Canada
11:20-11:40	**Title:** Effects of the chemical composition of coal tar pitch on the baking zone temperature in Soderberg electrode systems
	Lay Shoko, Vaal University of Technology, South Africa
11:40-12:00	**Title:** Growth, structural and electrical properties of VO_2/ZnO nanostructures
	Sang-Wook Han, Jeonbuk National University, South Korea
12:00-12:20	**Title:** Temperature-dependent hard X-ray excited optical luminescence to study the optical properties of the ZnO microwires
	Bi-Hsuan Lin, National Synchrotron Radiation Research Center, Taiwan
Panel discussions 12:20-12:30 & Closing	
Lunch Break 12:30 onwards....	

Conference Venue of Emerging Materials 2017

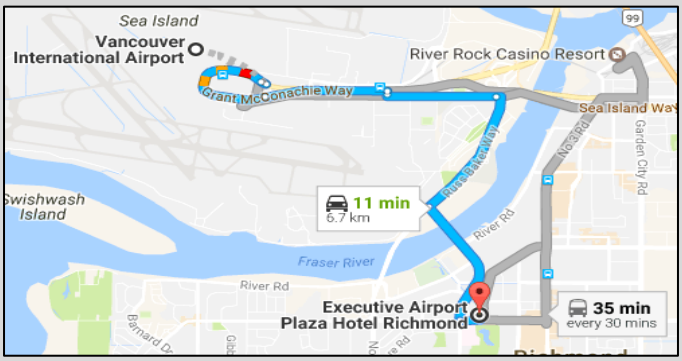
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Map & Directions:



From Vancouver International Airport:

- Head north-west on Grant McConachie Way E: 5 s (54 m)
- Continue to Grant McConachie Way E: 3 min (800 m)
- Continue on Grant McConachie Way E. Take Miller Rd, Russ Baker Way S and Gilbert Rd to Westminster Hwy

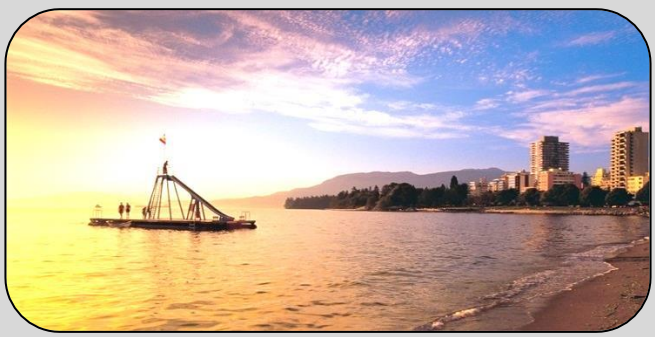
Come... Join us in Vancouver next July...



Canadian Rockies



Capilano Suspension Bridge



English Bay

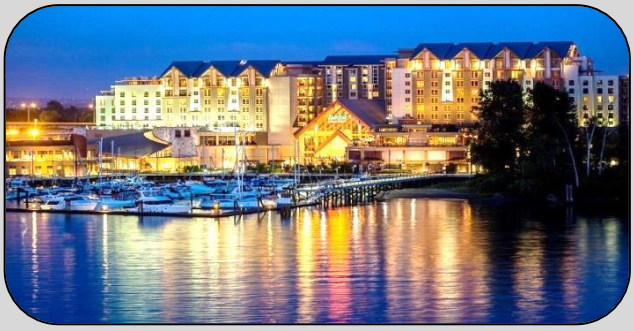


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