Bio-nanomaterials

Date: Wednesday, June 18
Location: Engineering Teaching and Learning Complex (ETLC) XXX
Chair: Robert Burrell

9:00 AM
Elastin-Like Polypeptides: Elucidating Amino Acid Level Effects on Molecular Self-Assembly and Plasma Protein Interactions
Bahniuk, Markian; Unsworth, Larry; Department of Chemical and Materials Engineering, University of Alberta; NRC-NINT

9:20 AM
Bioresponsive Nanoparticles for Cancer Therapy: MMP2 controlled drug release from Bovine Serum Albumin Nanoparticles
Singh, Harsh; Unsworth, Larry; Uludag, Hasan; Department of Chemical and Materials Engineering, University of Alberta

9:40 AM
Apparent fracture toughness of interface with inhomogeneous cohesive interactions
Chen, Bin; Shi, X.H.; Gao, H.; Wu, Peidong; 1Department of Materials Science and Engineering, McMaster University; 2Department of Mechanical Engineering, McMaster University

10:00 AM
Coffee Break

10:20 AM
Strain hardening and strain-rate sensitivity of extra-low interstitial grade Ti-6Al-4V alloy
Devatha Venkatesh, Balaji; Chen, D.L.; Bhole, S.D.; Department of Mechanical and Industrial Engineering, Ryerson University

10:40 AM
Peptide based cardiovascular materials: effect of peptide composition on hydrogel properties and plasma protein interaction
Saini, Aditi; Unsworth, Larry; Department of Chemical and Materials Engineering, University of Alberta

Materials for the Energy Industry I

Date: Wednesday, June 18
Location: Engineering Teaching and Learning Complex (ETLC) XXX
Chair: Tom Etsell

9:00 AM
Mechanical properties of an extruded AZ31 alloy
Begum, Sanjida; Chen, D.L.; Xu, S.; Luo, Alan; 1Department of Mechanical and Industrial Engineering, Ryerson University; 2CANMET-Materials Technology Laboratory, Natural Resources Canada; 3General Motors Research and Development Center, Warren

9:20 AM
Hydrolytic synthesis of nano titania particles for dye- sensitized solar cells
Charbonneau, Cecile; Demopoulos, George; Mining and Materials Engineering Departement, McGill University

9:40 AM
Hydrogen storage in magnesium silicon and magnesium aluminum
Harrower, Christopher; Haagsma, Julian; Mitlin, David; National Institute for Nanotechnology; Department of Chemical and Materials Engineering, University of Alberta

10:00 AM
Coffee Break

10:20 AM
Processing of the Clear Hills Ironstone Deposit
Kerr, Patrick; Uhlik, Peter; Etsell, Tom; Liu, Q.; Department of Chemical and Materials Engineering, University of Alberta

10:40 AM
Chloride Induced Materials Corrosion in Waste-to-Energy Plants
Li, Yuanshi; Hirose, A.; Plasma Physics Lab, University of Saskatchewan
9:00 AM  
**Effect of Process Instability during CO2 Laser Bean Welding of a Heat Resistant Alloy**  
Ojo, Olanrewaju; Egbewande, A.T.; Department of Mechanical and Manufacturing Engineering, University of Manitoba

9:20 AM  
**Experimental Adhesion Analysis of a Polyurethane-Epoxy Interface**  
Juss, Kulvinder; Mertiny, Pierre; Department of Mechanical Engineering, University of Alberta

9:40 AM  
**The Effect of Heat Affected Zone Notch Root Placement on X80 Line Pipe Charpy V-Notch Results**  
Pepin, Joel; Henein, H.; Ivey, D.G.; Wiskel, J.B.; Penniston, C.; Department of Chemical and Materials Engineering, University of Alberta

10:00 AM  
**Coffee Break**

10:20 AM  
**Effect of Laser Welding on the Corrosion Performance of Galvanized Steel**  
Su, Ken; Zhou, Y.; Hansson, Carolyn; University of Waterloo

10:40 AM  
**Influence of submerged tandem arc welding on HAZ toughness of X80 micro alloy**  
Moeinifar, Sadegh; Kokabi, A.H.; Madah Hoseini, S.H.R.; Azad University

11:00 AM  
**Coffee Break**

11:20 AM  
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Pepin, Joel; Henein, H.; Ivey, D.G.; Wiskel, J.B.; Penniston, C.; Department of Chemical and Materials Engineering, University of Alberta

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Moeinifar, Sadegh; Kokabi, A.H.; Madah Hoseini, S.H.R.; Azad University

1:00 PM  
**Coffee Break**

1:20 PM  
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Pepin, Joel; Henein, H.; Ivey, D.G.; Wiskel, J.B.; Penniston, C.; Department of Chemical and Materials Engineering, University of Alberta

1:40 PM  
**Effect of Laser Welding on the Corrosion Performance of Galvanized Steel**  
Su, Ken; Zhou, Y.; Hansson, Carolyn; University of Waterloo

2:00 PM  
**Coffee Break**

2:00 PM  
**Design of an atomic layer deposition system**  
Abari, Ali; Cadien, Kenneth; Department of Chemical and Materials Engineering, University of Alberta

2:20 PM  
**The Electrodeposition of CoFe Alloys with an α-Mn-type Crystal Structure**  
Crozier, Brendan; Ivey, D.G.; Liu, Q.; Department of Chemical and Materials Engineering, University of Alberta

2:40 PM  
**Electrodeposition of Sn-Cu and Sn-Cu-Ag solder films from citrate solutions**  
Han, Chunfen; Liu, Q.; Ivey, D.G.; Department of Chemical and Materials Engineering, University of Alberta

3:00 PM  
**Effect of deposition variables on the electrical properties of Pt thin films**  
Jim, Steven; Cadien, Kenneth; Department of Chemical and Materials Engineering, University of Alberta

3:20 PM  
**Are we at the bottom yet?**  
Nychka, John; Cadien, Kenneth; Department of Chemical and Materials Engineering, University of Alberta

3:40 PM  
**Coffee Break**

4:00 PM  
**Nano-particle Doping for Improvement of Superconducting Properties of MgB2 Superconductor**  
Soltanian, Saeid; Soltanzadeh, M.M.; Wang, X.L.; Dou, S.X.; Department of Physics and research Centre for Nanotechnology, University of Kurdistan; ISEM, University of Wollongong

4:20 PM  
**Electrodeposition of tin-rich, tin-gold eutectic solders for optoelectronic applications**  
Watt, Charles; Liu, Q.; Ivey, D.G.; Department of Chemical and Materials Engineering, University of Alberta
4:40 PM
Ferromagnetic nano-element for information processing devices
Haque, Anis; Department of Electrical and Computer Engineering, University of Calgary

Materials for the Energy Industry II
Date: Wednesday, June 18
Location: Engineering Teaching and Learning Complex (ETLC) XXX
Chair: Tom Etsell

2:00 PM
Transition metal-containing carbon nanotubes as catalyst for MgH2 sorption
Shalchi Amirkhiz, Babak; Danaie, Mohsen; Ophus, Colin; Simard, Benoit; Mitlin, David; Department of Chemical and Materials Engineering, University of Alberta

2:20 PM
Thermal Sprayed Deposition of Yttria Stabilized Zirconia for SOFCs
Starchuk, Nathan; Department of Mechanical Engineering, University of Alberta

2:40 PM
Fabrication and Performance Evaluation of the Composite Cathodes Prepared by the Impregnation Method for Solid Oxide Fuel Cells
Zhang, Qi; Petric, Anthony; Department of Materials Science and Engineering, McMaster University

3:00 PM
Electronic structure of TiO2 nanotube arrays from XANES studies
Zhou, Jigang; Fang, H.T.; Murphy, M.; Ko, Peter; Sham, T.K.; Canadian Light Source, University of Saskatchewan

3:20 PM
The Novel Process Engineering of Thick Thermal Barrier Coating with the combination of Air Plasma Spray (APS) and Chemically Bonded Composite Sol-Gel (CB-CSG)
Yao, Ray; Kim, Hyungkeun; Trocynski, Tom; Materials Engineering, University of British Columbia

CMSC 2008, University of Alberta

3:40 PM
Coffee Break

4:00 PM
Crystalline Perfection of Silver Nanoparticles Formed on Chabazite
Liu, Yan; Xu, Zhenghe; Zhu, Zhenping; Feng, Shouai; Kuznicki, S.M.; Yang, Hongjun; Department of Chemical and Materials Engineering, University of Alberta

General Topics I
Date: Wednesday, June 18
Location: Engineering Teaching and Learning Complex (ETLC) XXX
Chair: Weixing Chen

2:00 PM
Effect of Surface Conditions on the Corrosion Resistance of Stainless Steel Reinforcing Bars
Anders, Kyle; Hansson, Carolyn; University of Waterloo

2:20 PM
Development of Lead-Free Thermal Fuse Wires Using Ohno Continuous Casting
Bhardwaj, Divya; Department of Materials Science and Engineering, University of Toronto

2:40 PM
Coke formation and Metal Dusting of Electrodeposited Ni/Cu and Ni/Cu/Al alloy coatings
Cui, Xinwei; Chen, W.; Department of Chemical and Materials Engineering, University of Alberta

3:00 PM
Combined Micro-Structural and Compositional Development of Porous Silicon Nitride Ceramics
Gould, Daniel; Quinlan, M.; Plucknett, Kevin; Department of Process and Applied Engineering, Dalhousie University

3:20 PM
Hydrothermal Decomposition of Concentrated FeCl3 Solutions for the Regeneration of HCl and the Production of Hematite
Hock, Sebastian; Demopoulos, George; Becze, Levente; McGill University
3:40 PM
Coffee Break

4:00 PM
The Influence of Loading on the Corrosion of Steel in Cracked Ordinary Portland Cement and High Performance Concretes
Jaffer, Shahzma; Hansson, Carolyn; Department of Mechanical and Mechatronics Engineering, University of Waterloo

4:20 PM
Controlling Chemical Reactions in Bioactive Glass with Mechanical Stress
Nychka, John¹; Li, Ding²; Yang, Fuqian²; ¹Department of Chemical and Materials Engineering, University of Alberta; ²University of Kentucky

4:40 PM
Reliability of Pb-free solder joints under mixed conditions
Kaila, Rishi; Department of Materials Science and Engineering, University of Toronto

Characterization I
Date: Thursday, June 19
Location: Engineering Teaching and Learning Complex (ETLC) XXX
Chair: Doug Ivey

8:20 AM
Characterization of Single Crystal Slip Behaviour in Polycrystalline Mg-Zn Alloys by EBSD and Instrumented Indentation
Diak, Bradley; Decker, Colleen; Department of Mechanical and Materials Engineering, Queen's University

8:40 AM
Metallurgical Assessment of a Hypereutectic Aluminum-Silicon P/M Alloy
Heard, David; Bishop, D.P.; Department of Materials Engineering, Dalhousie University

9:00 AM
Comparison of morphological and chemical characteristics of clay minerals in the primary froth and middlings from oil sands processing by high resolution transmission electron microscopy

CMSC 2008, University of Alberta
Hooshiar, Ali; Kaminsky, Heather; Uhlik, Peter; Shinbine, Alyssa; Ivey, D.G.; Etsell, Tom; Liu, Q.; Omotoso, Oladipo; Department of Chemical and Materials Engineering, University of Alberta

9:20 AM
In-situ Neutron Diffraction Study of Annealing of Polycrystalline Magnetic Shape Memory Alloy Ni49.2Mn29.6Ga21.1
Hutanu, Roxana; Swainson, Ian; Gharghouri, Michael; Atomic Energy of Canada Limited

9:40 AM
Mineralogical composition of streams in oil sands extraction by the hot water extraction process
Kaminsky, Heather; Ivey, D.G.; Etsell, Tom; Omotoso, Oladipo; Department of Chemical and Materials Engineering, University of Alberta

Materials Modelling
Date: Thursday, June 19
Location: Engineering Teaching and Learning Complex (ETLC) XXX
Chair: Hao Zhang

8:20 AM
A Computational Study of Elastic Effects on Phase Transformations
Greenwood, Michael; Hoyt, J.; Provatas, N.; Department of Materials Science and Engineering, McMaster University

8:40 AM
Slope Selection and Step Edge Topology in Epitaxial Growth on Patterned Surfaces
Jones, Aleksy; Ballestad, Anders; Rottler, Joerg; Tiedje, Tom; Department of Physics and Astronomy, University of British Columbia

9:00 AM
A Monte Carlo Simulation of Recrystallization in the Heat Treatable Aluminum Alloy AA6111
Sepehrband, Panthea; Esmaeili, Shahrzad; Department of Mechanical and Mechatronics Engineering, University of Waterloo

9:20 AM
Grain Boundary Migration in $\Sigma$5 [001] Twist Boundary: Molecular Dynamics Study
Yan, Xinan; Zhang, Hao; Department of Chemical and Materials Engineering, University of Alberta

9:40 AM
Molecular dynamics simulation of tensile deformation of Cu in twin-boundary and grain boundary
Yue, Lei; Li, D.Y.; Department of Chemical and Materials Engineering, University of Alberta

10:00 AM
Coffee Break

10:20 AM
Particle settling and homogeneity of WC-based MMCs deposited by plasma transferred arc welding
Wolfe, Tonya; Henein, H.; Department of Chemical and Materials Engineering, University of Alberta

10:40 AM
Phase Transformation during Hot Strip Rolling of a Nb-Mo Complex-phase Steel
Sarkar, Sujay; Militzer, Matthias; Poole, W.J.; Department of Materials Engineering, University of British Columbia

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**Wear/Tribology**

**Date:** Thursday, June 19

**Location:** Engineering Teaching and Learning Complex (ETLC) XXX

**Chair:** Dongyang Li

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8:20 AM
Synergism of erosion and corrosion of aluminum alloy in ethylene glycol-water solution
Cheng, Frank; Zhang, Guoan; Xu, Luyao; Department of Mechanical Engineering, University of Calgary

8:40 AM
Effects of titanium addition on microstructure and wear resistance of hypereutectic high chromium cast iron Fe-25 wt.%Cr-4 wt.%
Chung, Reinaldo; Tang, Xinhu; Hinckley, B.; Dolman, K.; Li, D.Y.; Department of Chemical and Materials Engineering, University of Alberta

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**Characterization II**

**Date:** Thursday, June 19

**Location:** Engineering Teaching and Learning Complex (ETLC) XXX

**Chair:** Doug Ivey

1:00 PM
Precipitate characterization in microalloyed steels
Lu, Junfang; Ivey, D.G.; Henein, H.; Wiskel, J.B.; Omotoso, Oladipo; Department of Chemical and Materials Engineering, University of Alberta
**Aqueous Colloidal Processing of Bimodal Barium Titanate Powders**
*Munro, Cameron; Plucknett, Kevin; Department of Materials Engineering, Dalhousie University*

**XAS and XRD Study of Reactivity in Particulate Aluminum Alloy MMCs**
*Oguocha, Ike; Department of Mechanical Engineering, University of Saskatchewan*

**Characterization of microstructural features in microalloyed steels using quantitative X-ray diffraction**
*Li, Xiujuan; Ivey, D.G.; Wiskel, J.B.; Henein, H.; Omotoso, Oladipo; Department of Chemical and Materials Engineering, University of Alberta*

**General Topics II**
*Date: Thursday, June 19*
*Location: Engineering Teaching and Learning Complex (ETLC) XXX*
*Chair: Weixing Chen*

**Potential Oscillations of Nickel Containing Stainless Steel in Sulfuric Acid**
*Jones, Stephen; Coley, K.; Ives, B.; Department of Materials Science and Engineering, McMaster University*

**Effect of Laser Deposition Processing on the Phase Transformation and Mechanical Properties of Fe-Ni Alloys**
*Rasti, Negar; University of Waterloo*

**Effect of Alloying Elements on the Passivation of Copper-Nickel Alloys in a Marine Environment**
*Taher, Abulmaali; Kipourros, G.J.; Department of Processes Engineering and Applied Sciences, Dalhousie University*

**The role of chloride and fluoride on corrosion behavior of CoCrMo orthodontic materials**

**Evaluation of the Al-Zn binary alloy system for foaming via powder metallurgy**
*Lafrance, Maxime; Jalilian, F.; Drew, R.A.L.; McGill University*

**Microscopic investigation and quantification of interactions of hydrogen, stress and anodic dissolution at crack-tip during pipeline SCC**
*Cheng, Frank; Li, Moucheng; Tang, Xiao; Department of Mechanical Engineering, University of Calgary*

**Digital imaging technique for strain measurement in ERW pipe forming process**
*Deng, Hua; Wiskel, J.B.; Ben-Zvi, Amos; Rieder, M.D.; Henein, H.; Department of Chemical and Materials Engineering, University of Alberta*

**Stress Corrosion Cracking Initiation on Oil and Gas Pipelines**
*Eslami, Abdoulmajid; Fang, B.; Chen, W.; Department of Chemical and Materials Engineering, University of Alberta*

**Infrared Temperature Characterization of a Steel Strip during TMCP of Line Pipe Steel**
*Jefferies, Carol; Wiskel, J.B.; Henein, H.; Department of Chemical and Materials Engineering, University of Alberta*

**Crack Growth Behaviors and Mechanisms of Pipeline Steel in Near Neutral pH Environments with Ca$^{2+}$ and HCO$_3^-$ Ions under Cyclic Loading**
*Wang, Haishan; Eadie, Reg; Chen, W.; Fang, B.; Department of Chemical and Materials Engineering, University of Alberta*
CMSC 2008, University of Alberta
Smith, Reginald; Dunkley, Ian; Department of Mechanical Engineering, Queen's University

P.7
Gas Phase Aluminizing of a Nickel-Base Superalloy by a Single-Step HTHA Aluminizing Process
Eslami, Abdoulmajid; Arabi, H.; Rastegari, S.; Department of Chemical and Materials Engineering, University of Alberta

P.8
Thermomechanical Characterization of Homogenized AA3xxx
Kubiak, Angela; Wells, M.A.; Poole, W.J.; Parson, N.; Department of Materials Engineering, University of British Columbia

P.9
Preparation of nanostructured Ni/Al2O3 composite coatings in high magnetic field
Li, Tingju; Cockcroft, Steve; Department of Materials Engineering, University of British Columbia

P.10
Immobilization of Antimicrobial Peptides onto Titanium Surface
Lu, Shanshan; Wang, Rizhi; Duan, Ke; Hancock, Bob; Kindrachuck, Jason; Department of Materials Engineering, University of British Columbia

P.11
Refinement of Al P/M alloy Alumix 431D by modification of sintering parameters
Mosher, Michael; Bishop, D.P.; Department of Process Engineering and Applied Science, Dalhousie University

P.12
Optimized Processing of an Experimental Al-Si-Based Powder Metallurgy Alloy
Mosher, Winston; Caley, W.F.; Kipouros, G.J.; Bishop, D.P.; Department of Process Engineering and Applied Science, Dalhousie University

P.13
Aqueous Colloidal Processing of Lanthanum-doped Lead Zirconate Titanate
Munro, Cameron; Plucknett, Kevin; Department of Materials Engineering, Dalhousie University

P.14
Preparation of YSZ Electrolyte Films for SOFC using Sol-Gel Process
Optical properties of shape-controlled gold nanoparticles
Soltanian, Saeid; Saadatmand, A.; Soltanzadeh, M.M.; Salimi, A.; Hallaj, R.; Akhtari, K.; Department of Physics and research Centre for Nanotechnology, University of Kurdistan

Preparation and Characterization of Magnetic Nanowires
Soltanian, Saeid; Shaterabadi, Z.; Kanjouri, F.; Asoudeh, S.; Soltanzadeh, M.M.; Almaci, M.; Ramezani, A.; Department of Physics and research Centre for Nanotechnology, University of Kurdistan

Characterization of A36 Steel with Bimodal Grain Size Distribution
Tomlinson, Philip; Poole, W.J.; Sinclair, Chad; Department of Materials Engineering, University of British Columbia

Molecular Dynamics Simulation of Ni and Cu Nanoparticle Sintering
Unwin, Peter; Kresta, Suzanne; Department of Chemical and Materials Engineering, University of Alberta

Hot Deformation of a Commercial Aluminum-Copper Powder Metallurgy Alloy
Walker, David; Caley, W.F.; Bishop, D.P.; Department of Process Engineering and Applied Science, Dalhousie University

Deformation and annealing of steel after wire drawing: texture and microstructure evolution
Zidani, M.1; Messaoudi, S.1; Baudin, T.2,3; Solas, D.2,3; Derfouf, C.4; Bounar, N.5; 1Department of Metallurgy, University of Biskra; 2Laboratoire de Physico-Chimie de l'Etat Solide; 3Univ Paris-Sud; 4Department of mechanics, University of Biskra; 5University of Jijel
### CMSC 2008, University of Alberta

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eslami, Abdoulmajid</td>
<td>6, 7</td>
</tr>
<tr>
<td>Esmaeili, Shahrazad</td>
<td>4</td>
</tr>
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<td>Etsell, Tom</td>
<td>1, 4</td>
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<td>Hirose, A.</td>
<td>1, 5</td>
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<td>6, 7, 8</td>
</tr>
</tbody>
</table>
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X
Xu, Luyao ................................................................. 5
Xu, S ................................................................. 1, 7
Xu, Zhenghe ....................................................... 3
Xu, Zhengrong .................................................. 8

Y
Yamaguch, E.S ......................................................... 5
Yan, Xinan ............................................................. 5
Yang, Fuqian ......................................................... 4
Yang, Hongqun ...................................................... 3

Z
Zhang, Guoan ......................................................... 5
Zhang, Hao ............................................................ 5
Zhang, Qi ............................................................... 3
Zhou, Jigang ......................................................... 3, 5
Zhou, Y ................................................................. 2
Zhu, Zhenping ....................................................... 3
Zidani, M .............................................................. 8