

**Abstract # 1**

**Title: STRUCTURAL ANALYSIS OF AN E. COLI PHOSPHOENOLPYRUVATE CARBOXYKINASE (PCK) COMPLEX WITH CARBON DIOXIDE**

Author(s): J. Puttick<sup>1</sup>, H. Goldie<sup>2</sup>, and L.T.J Delbaere<sup>1\*</sup> Departments of Biochemistry<sup>1</sup> and of Microbiology and Immunology<sup>2</sup>, University of Saskatchewan, 107 Wiggins Road, Saskatoon, SK, Canada, S7N 5E5

**Abstract # 2**

**Title: STRUCTURAL STUDY OF A BACTERIAL ISOCITRATE DEHYDROGENASE IN COMPLEX WITH LIGANDS**

Author(s): Navdeep S. Sidhu and Louis T.J. Delbaere, Department of Biochemistry, University of Saskatchewan

**Abstract # 3**

**Title: CRYSTALLOGRAPHIC STUDIES OF PHOSPHOENOLPYRUVATE CARBOXYKINASE.**

Author(s): Julien J. H. Cotelesage (a), Louis T. J. Delbaere (a), Hughes Goldie (a), and J. Gregory Zeikus (b). (a) Department of Biochemistry, University of Saskatchewan. (b) Department of Biochemistry and Molecular Biology, Michigan State University.

**Abstract # 4**

**Title: MID-INFRARED MICROSPECTROSCOPIC ANALYSIS OF PEA SEEDS**

Author(s): Toju Ogunremi (Canadian Light Source Inc. University of Saskatchewan), Colleen Christensen (Canadian Light Source Inc. University of Saskatchewan) and Tom Warkentin (Crop Development Centre, College of Agriculture, University of Saskatchewan).

**Abstract # 5**

**Title: THE EFFECT OF VARIOUS LIGHT SOURCES ON BROILER PHYSICAL AND BIOCHEMICAL PARAMETERS**

Author(s): Muhammad Ramzan\*, Khalil ur Rehman and Abdul Ghuffar. Department of Chemistry (Biochemistry), University of Agriculture, Faisalabad-38040 Pakistan. Govt. College for Teacher Training, Faisalabad, Pakistan.

**Abstract # 6**

**Title: SYNCHROTRON STUDIES OF SELENIUM IN INSECTS: ENVIRONMENTAL IMPLICATIONS**

Author(s): Ruwandi Andrahennadi, Mark Wayland and Ingrid Pickering- Department of Geological Sciences, University of Saskatchewan, Saskatoon and Environment Canada, Saskatoon

**Abstract # 7**

**Title: THE STRUCTURE OF GELSOLIN BOUND TO ATP**

Author(s): Dunja Urosev<sup>1</sup>, Qing Ma<sup>2</sup>, Agnes L.C. Tan<sup>2</sup>, Robert C. Robinson<sup>2</sup> and Leslie D. Burtnick<sup>1</sup>  
<sup>1</sup>Chemistry, University of British Columbia and UBC Centre for Blood Research, Vancouver, Canada <sup>2</sup> Institute of Molecular and Cell Biology, Singapore

**Abstract # 8**

**Title: COORDINATION OF BORIC ACID WITH SOIL MINERALS AND SOIL ORGANIC MATTER: A XANES STUDY**

Author(s): D. Xu<sup>1</sup> and D. Peak<sup>2</sup> Dept. of Soil Science, University of Saskatchewan, Saskatoon, Saskatchewan, S7N 5A8 1Phone: 306-966-4223 Fax: 306-966-6881, Email: danixu@sasktel.net 2Phone: 306-966-6806 Fax: 306-966-6881, Email: derek.peak@usask.ca

**Abstract # 9**

**Title: DIFFRACTION STUDIES ON THE CRYSTALLIZATION OF FATS**

Author(s): Stefan H.J. Idziak, G. Mazzanti, S.E. Guthrie, and A.G. Marangoni University of Waterloo and University of Guelph

**Abstract # 10**

**Title: CRYSTAL STRUCTURE OF BIGLYCAN AND THE IMPORTANCE OF DIMERISATION FOR THE FOLDING AND STABILITY OF CLASS I SMALL LEUCINE RICH REPEAT PROTEINS/PROTEOGLYCAN**

Author(s): Paul G. Scott<sup>1</sup>, Carole M. Dodd<sup>1</sup>, Ernst M. Bergmann<sup>1,2</sup>, John K. Sheehan<sup>3</sup>, and Paul N. Bishop<sup>3</sup> <sup>1</sup>Department of Biochemistry, University of Alberta, <sup>2</sup>Alberta Synchrotron Institute, <sup>3</sup>Wellcome Trust Centre for Cell-Matrix Research, University of Manchester, Eng

**Abstract # 11**

**Title: X-RAY CRYSTAL TRUCTURE ANALYSIS OF GTP DEPENDENT PHOSPHOENOLPYRUVATE CARBOXYKINASE (PCK) FROM CORYNEBACTERIUM GLUTAMICUM**

Author(s): Sanjukta Aich, Lata Prasad, Fumie Imabayashi and Louis T. J. Delbaere Department of Biochemistry, University of Saskatchewan, SK, S7N 5E5, Canada

**Abstract # 12**

**Title: CHARACTERIZATION OF NANOCRYSTALLINE DIAMOND BY NEXAFS**

Author(s): S. L.Yang, Q. Yang, M. Kaushik, Department of Mechanical Engineering, University of Saskatchewan, 57 Campus Drive, Saskatoon, SK, Canada S7N 5A9

**Abstract # 13**

**Title: THE SYNCHROTRON AND THE NEONATAL LINE**

Author(s): R. R. Martin, S. J. Naftel and A. Dolphin, University of Western Ontario

**Abstract # 14**

**Title: NOVEL HIGH-PRESSURE STRUCTURES OF SILANE PROBED BY RAMAN AND SYNCHROTRON IR SPECTROSCOPY**

Author(s): Yang Song<sup>1,\*</sup>, Zhenxian Liu<sup>2</sup>, Russell J. Hemley<sup>2</sup>, Ho-kwang Mao<sup>2</sup>, John Tse<sup>3</sup>, and Dudley R. Herschbach<sup>4</sup> <sup>1</sup>Department of Chemistry, University of Western Ontario, London, Ontario, N6A 5B7, Canada <sup>2</sup>Geophysical Laboratory, Carnegie Institution of Washington, Was

**Abstract # 15**

**Title: INTERACTION OF ARSENIC AND MANGANESE IN REDUCED, ALKALINE MINE SLUDGE**

Author(s): Suzanne Beauchemin and Mario Beauchemin; Natural Resources Canada, Ottawa, Canada

**Abstract # 16**

**Title: STRUCTURE OF THERMUS AQUATICUS SUCCINYL-COA SYNTHETASE**

Author(s): Marie E. Fraser, Department of Biological Sciences, University of Calgary, 2500 University Dr. NW, Calgary, AB T2N 1N4.

**Abstract # 17**

**Title: TEXTURE MEASUREMENT USING 3D SYNCHROTRON LAUE MICRODIFFRACTION**

Author(s): Marina Suominen Fuller\*, Stewart McIntyre\*, Sridhar Ramamurthy\* Robert Klassen#  
\*Surface Science Western # Department of Mechanical and Materials Engineering  
University of Western Ontario, London, Ontario, Canada, N6A 5B7 Andrea Gerson Applied  
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**Abstract # 18**

**Title: MAPPING PROTEIN ADSORPTION ON A POLYMER BLEND USING SOFT X-RAY SPECTROMICROSCOPY**

Author(s): Li Li(1), Adam Hitchcock(1), Andreas Scholl(2), Andrew Doran(2), (1) Brockhouse Institute for Materials Research, McMaster University, Hamilton, ON L8S4M1 (2) Advanced Light Source, Berkeley Lab, Berkeley, CA 94720 USA

**Abstract # 19**

**Title: AN EMERGING METHOD FOR RAPID CHARACTERIZATION OF FEED STRUCTURES AND FEED COMPONENT MATRIX AT A CELLULAR LEVEL AND RELATION TO FEED QUALITY AND NUTRITIVE VALUE**

Author(s): PEIQIANG YU1, A. WALKER1, K. DOIRON1, J.J. MCKINNON1, C.R. CHRISTENSEN2, D. A. CHRISTENSEN1; Department of Animal and Poultry Science, University of Saskatchewan, Canada1, Canadian Light Source, Canada2

**Abstract # 20**

**Title: APPLICATIONS OF STATISTICAL METHODS - PRINCIPAL COMPONENT ANALYSIS (PCA) AND CLUSTER ANALYSIS (CLA) IN SYNCHROTRON-BASED FTIR SPECTRA ANALYSIS FOR FEED/PLANT INHERENT STRUCTURE RESEARCH**

Author(s): Peiqiang YU College of Agriculture, University of Saskatchewan, 51 Campus Drive, Saskatoon, Canada, S7N 5A8

**Abstract # 21**

**Title: DESIGN OF A SOFT X-RAY EMISSION SPECTROMETER FOR THE REIXS BEAMLINE AT THE CLS**

Author(s): David Muir, Department of Physics, University of Saskatchewan. Mark Boots, Department of Physics, University of Saskatchewan. Mikhail Yablonskikh, Department of Physics, University of Saskatchewan. Alexander Moewes, Department of Physics, University of Sa

**Abstract # 22**

**Title: COMMISSIONING OF THE SPHERICAL GRATING MONOCHROMATOR (SGM) SOFT X-RAY SPECTROSCOPY BEAMLINE AT THE CANADIAN LIGHT SOURCE**

Author(s): T. Regier, I. Coulthard, R. I.R. Blyth, J. Paulsen, G. Wright, K. Tan Canadian Light Source, Inc.

**Abstract # 23**

**Title: SYNCHROTRON RADIATION PHOTOEMISSION STUDY OF INORGANIC TETRAPOD NANOCRYSTALS**

Author(s): R.I.R.Blyth\*, J Thompson#, L. Carbone, V. Arima, F. Matino and L. Manna, National Nanotech. Lab., Lecce, Italy, \* and Canadian Light Source, # and University of Western Ontario

**Abstract # 24**

**Title: RESONANT PHOTOEMISSION AND X-RAY ABSORPTION OF ORGANIC EUROPIUM COMPLEXES**

Author(s): J. Thompson\*, L. Carbone, R.I.R.Blyth#, National Nanotech. Lab., Lecce, Italy, \*and University of Western Ontario, # and Canadian Light Source

**Abstract # 25**

**Title: XANES CHARACTERIZATION OF AMINO SUGAR AND PROTEIN N IN SOILS**

Author(s): Gillespie, A.W. University of Saskatchewan, Walley, F.L. University of Saskatchewan, Farrell, R.E. University of Saskatchewan, Leinweber, P. Rostock University, Regier, T. Canadian Light Source Blyth, R. Canadian Light Source

**Abstract # 26**

**Title: ANALYSIS OF MICROBIAL BIOFILMS USING SOFT X-RAY SCANNING**

Author(s): James J. Dynes(1), Adam P. Hitchcock(1), John R. Lawrence (2), George D.W. Swerhone (2), Gary G. Leppard (3), Darren R. Korber (4) (1) BIMR, McMaster U., Hamilton, ON L8S 4M1; (2) Environment Canada, Saskatoon S7N 3H5; (3) Environment Canada, Burlington,

**Abstract # 27**

**Title: CARBON 1S AND IRON 2P NEXAFS STUDY OF ORGANOIRON POLYMERS.**

Author(s): Edwige Otero and Stephen G. Urquhart (Department of Chemistry, University of Saskatchewan, Saskatoon, Canada, S7N C9); Patrick O. Shipmanb and Alaa S. Abd-El-Azizb (Department of Chemistry, University of Winnipeg, Winnipeg, Canada, R3B 2E9)

**Abstract # 28**

**Title: THE ROLE OF SELENIUM IN FRDA**

Author(s): Ni Ao and Helen Nichol University of Saskatchewan

**Abstract # 29**

**Title: PRELIMINARY STUDY AND MECHANICAL SUPPORT DESIGN OF ANALYZER FOR DIFFRACTION ENHANCED IMAGING**

Author(s): Nagarajan Alagarsamy, Division of Biomedical Engineering, University of Saskatchewan, Saskatoon, SK, Canada. L. Dean Chapman, Department of Anatomy and Cell Biology, University of Saskatchewan, Saskatoon, SK, Canada. Walerian Szyszkowski, Division of Mechanical En

**Abstract # 30**

**Title: DEVELOPMENT OF A TISSUE SAMPLE ANALYSIS SYSTEM USING DIFFRACTION ENHANCED IMAGING AND SMALL AND WIDE ANGLE SCATTERING**

Author(s): Brian Bewer, University of Saskatchewan, Department of Physics and Engineering Physics. Dean Chapman, University of Saskatchewan, Anatomy and Cell Biology. Ian Cunningham, University of Western Ontario, Robarts Research Institute.

**Abstract # 31**

**Title: LARGE FORMAT, RAPID-SCANNING X-RAY IMAGING OF METALS IN DROSOPHILA.**

Author(s): Akela Hanson and Helen Nichol University of Saskatchewan

**Abstract # 32**

**Title: CONTROL SYSTEM FOR DIFFRACTION ENHANCED IMAGING**

Author(s): Aravinda Kumar Napa, Division of Biomedical Engineering, University of Saskatchewan, Saskatchewan, Canada. Zhong Zhong, National Synchrotron Light Source, Brookhaven National Laboratory, Upton, NY, USA. L. Dean Chapman, Department of Anatomy and Cell Biology, University of Saskatchewan, Saskatchewan, Canada.

**Abstract # 33**

**Title: MICROBEAM RADIATION THERAPY IN A RAT MODEL OF MALIGNANT BRAIN TUMOR: RESULTS ONE YEAR AFTER THERAPY**

Author(s): Elisabeth Schültke 1,2, Khalid Ataelmannan 1, Adel Mohammed 2, Bernhard Juurlink 2, Dean Chapman 2, Robert Griebel 1, Daryl Fournery 1 Departments of Surgery 1 and Anatomy & Cell Biology 2, University of Saskatchewan, Saskatoon, Canada with Jean Laissue an

**Abstract # 34**

**Title: HARD X-RAY MICRO-ANALYSIS (HXMA: 06ID-1) BEAMLINE AT CANADIAN LIGHT SOURCE INC.**

Author(s): Ning Chen(1,2), Glen Wright(1), Ru Igarashi(1), and De-tong Jiang(3) 1.Canadian Light Source Inc., University of Saskatchewan 2.Department of Geological Science, University of Saskatchewan 3.Department of Physics, University of Guelph

**Abstract # 35**

**Title: PRELIMINARY X-RAY CRYSTALLOGRAPHIC STUDIES OF DEINOCOCCUS RADIODURANS THIOREDOXIN REDUCTASE**

Author(s): Obiero, J., Goertzen, M., Bonderoff. S, Sanders D.A.R Department of Chemistry University of Saskatchewan

**Abstract # 36**

**Title: 2.0 Å RESOLUTION STRUCTURE OF SEMET-SUBSTITUTED ATU1476, AN ESTERASE D PROTEIN FROM A. TUMEFACIENS**

Author(s): Karin E. van Straaten\*, Claudio F. Gonzales\*\*, Alexei V. Savchenko\*\* and David A. R. Sanders\* \*University of Saskatchewan \*\*University of Toronto

**Abstract # 37**

**Title: DESIGN AND IMPLEMENTATION OF AN ANTICONTAMINATOR FOR STXM**

Author(s): Danielle Covelli(1), Stephen Urquhart(1), Jian Wang(2), Daniel Hernandez Cruz(2) and Adam Hitchcock(2) (1) Chemistry, U. Saskatchewan, Saskatoon, SK S7N 5A8; (2) Chemistry & BMR, McMaster U., Hamilton, ON L8S 4M1

**Abstract # 38**

**Title: STRATEGIES TO ENHANCE X-RAY FLUORESCENCE IMAGING OF MANGANESE IN BRAIN TISSUE**

Author(s): Ying Zhu Division of Biomedical Engineering University of Saskatchewan 107 Wiggins Road Saskatoon, SK S7N 5E5 CANADA Phone: (306) 966-1344 Email: ying.zhu@usask.ca

**Abstract # 39**

**Title: MULTIDISCIPLINARY EVALUATION OF THE EFFECT OF ANTI-INFLAMMATORY AGENTS ON SCAR TISSUE DEVELOPMENT: CHARACTERIZATION OF PERIDURAL SCARRING BY SYNCHROTRON FTIR MICROSPECTROSCOPY, IMMUNOHISTOCHEMISTRY, HISTOCHEMISTRY AND IN SITU HYBRIDIZATION**

Author(s): Kathleen Gough, Richard Wiens, Margaret Rak, Suraj Abraham, Nicky Cox, Elizabeth Schultke, Bernhard Juurlink, William Kulyk Department of Chemistry, University of Manitoba and Department of Anatomy and Cell Biology, University of Saskatchewan

**Abstract # 40**

**Title: XAS AND XES OF CO-DOPED ORGANIC COMPOUNDS**

Author(s): Tor Pedersen (University of Saskatchewan) Junghwa Seo (Yonsei University) Gap Soo Chang (University of Saskatchewan) Alexander Moewes (University of Saskatchewan)

**Abstract # 41**

**Title: DISSOCIATION DYNAMICS OF CORE EXCITED CARBON DIOXIDE**

Author(s): Yongheng Fan and John J. Neville Department of Chemistry, University of New Brunswick Fredericton, New Brunswick, Canada

**Abstract # 42**

**Title: CORE EXCITATION SPECTROSCOPY AND PHOTO-FRAGMENTATION DYNAMICS OF N-HETEROCYCLES**

Author(s): Samuel Odoh and John J. Neville, Department of Chemistry, University of New Brunswick, Fredericton, NB, Canada

**Abstract # 43**

**Title: VISUALIZATION OF SPINE SEGMENTS OF SMALL ANIMALS WITH CT RECONSTRUCTION**

Author(s): Honglin Zhang<sup>1</sup>, Elisabeth Schultke<sup>2</sup>, L. Dean Chapman<sup>1,2</sup>, Madan Gupta<sup>3</sup> <sup>1</sup> Division of Biomedical Engineering, University of Saskatchewan, Saskatoon, SK Canada <sup>2</sup> Department of Anatomy and Cell Biology, University of Saskatchewan, Saskatoon, SK Canada. <sup>3</sup> Inte

**Abstract # 44**

**Title: BENT LAUE X-RAY ABSORPTION SPECTROSCOPY IMAGING SYSTEM**

Author(s): Honglin Zhang<sup>1</sup>, L. Dean Chapman<sup>1,2</sup> Madan Gupta<sup>3</sup>, <sup>1</sup> Division of Biomedical Engineering, University of Saskatchewan, Saskatoon, SK Canada <sup>2</sup> Department of Anatomy and Cell Biology, University of Saskatchewan, Saskatoon, SK Canada. <sup>3</sup> Intelligent Systems Resea

**Abstract # 45**

**Title: TAILORING MATERIALS WITH A CONTROLLED NANOSCALE ORIENTATIONAL MORPHOLOGY WITH X-RAY SPECTROMICROSCOPY**

Author(s): Stephen Urquhart, Juxia Fu, Farhan Ahmad, Department of Chemistry, University of Saskatchewan

**Abstract # 46**

**Title: FAR-INFRARED SPECTROSCOPY OF ASTROPHYSICALLY- AND ATMOSPHERICALLY-RELEVANT MOLECULES USING THE CANADIAN LIGHT SOURCE**

Author(s): D. W. Tokaryk, Univerisity of New Brunswick, O. Pirali, FOM Rijnhuizen J. M. Stewart, Mount Allison University D. Appadoo, Canadian Light Source

**Abstract # 47**

**Title: SYNCHROTRON-BASED CHARACTERIZATION OF POTASH MINERALS FROM THE WORLD CLASS POTASH DEPOSITS OF SASKACHEWAN: IMPLICATION FOR MINERALOGY, GEOCHEMISTRY AND METALLOGENESIS**

Author(s): A. J. McCreedy<sup>1</sup>, I. R. Annesley<sup>1</sup>, C. Madore<sup>1</sup>, T. Danyluk<sup>2</sup>, A. Prugger<sup>2</sup> & R.G. Cavell<sup>3</sup>, email: mcreedy@src.sk.ca <sup>1</sup>Saskatchewan Research Council (SRC), Saskatoon, Saskatchewan, Canada <sup>2</sup>Earth Science and Mining, Potash Corporation of Saskatchewan, Saskatoon

**Abstract # 48**

**Title: RECENT PROGRESS WITH THE CANADIAN PHOTOELECTRON EMISSION RESEARCH SPECTROMICROSCOPE AT THE CLS**

Author(s): U. Lanke and S.G. Urquhart, Department of Chemistry, University of Saskatchewan, K. Kaznatcheev and C. Karunakaren, Canadian Light Source, A.P. Hitchcock, Department of Chemistry, McMaster University

**Abstract # 49**

**Title: 3D MICROSTRUCTURAL DYNAMICS OF CORTICAL BONE: A NEW DIMENSION IN BONE AGING**

Author(s): David Cooper (1), David Thomas (2), and John Clement (2), 1. Department of Orthopaedics, University of British Columbia, Vancouver, BC, CANADA. 2. School of Dental Science, University of Melbourne, Melbourne, Victoria, AUSTRALIA.

**Abstract # 50**

**Title: STATUS OF THE FAR-IR BEAMLINE AT THE CLSI**

Author(s): Dominique Appadoo, Canadian Light Source Inc.

**Abstract # 51**

**Title: HIGH EFFICIENCY MICROPROBE FOR IMAGING AND XAS ON BIOLOGICAL SAMPLES AT BIOCAT**

Author(s): R. A. Barrea, T. Weng, D. Gore, R. Heurich, M. Vukonich, and T.C. Irving The Biophysics Collaborative Access Team (BioCAT), Dept of Biological Chemical, and Physical Sciences, Illinois Institute of Technology, Chicago, IL, 60616

**Abstract # 52**

**Title: MICROFABRICATION OF X-RAY MASKS FOR LENSLESS X-RAY IMAGING OF BIOLOGICAL SYSTEMS**

Author(s): Arvin Yazdi and Tom Tiedje† Department of Physics and Astronomy, University of British Columbia, Vancouver, BC, V6T 1Z4, †also Electrical and Computer Engineering

**Abstract # 53**

**Title: DETECTION AND ISOLATION OF CO-FOLDING PROTEIN PARTNERS FROM GENOMIC DNA LIBRARIES USING THE GFP FOLDING REPORTER**

Author(s): Brian L. Mark (1), Geoffrey S. Waldo (2), and Thomas C. Terwilliger (2). (1) Dept. of Microbiology, University of Manitoba, MB, Canada, R3T 2N2 (2) Los Alamos National Laboratory, Los Alamos, NM 87545 USA. LA-UR numbers: LA-UR-04-4643 and LA-UR-04-4676

**Abstract # 54**

**Title: SYNTHESIS AND FIELD ELECTRON EMISSION PROPERTIES OF DIAMOND FILMS GROWN BY MICROWAVE PLASMA-ENHANCED CHEMICAL VAPOR DEPOSITION**

Author(s): X. Lu, C. Xiao, A. Hirose Plasma Physics Laboratory, University of Saskatchewan, 116 Science Place, Saskatoon, SK, S7N 5E2 Canada Q. Yang Department of Mechanical Engineering, University of Saskatchewan, 57 Campus Drive Saskatoon, SK, S7N 5A9 Canada

**Abstract # 55**

**Title: METAL LOCALIZATION IN MOUSE MODELS**

Author(s): Justin Tse, Stephanie Roach, Darrell Mousseau, Helen Nichol University of Saskatchewan

**Abstract # 56**

**Title: CHEMICAL NATURE OF HUMIC SUBSTANCES AND MINERAL-HUMIC COMPLEXES FORMED IN BIOPHYSICO-CHEMICAL HUMIFICATION PATHWAYS**

Author(s): Ailsa G. Hardie, James J. Dynes, Leonard M. Kozak and P.M. Huang. Department of Soil Science, University of Saskatchewan, 51 Campus Dr., Saskatoon, SK, S7H 5A8, Canada.

**Abstract # 57**

**Title: SOFT X-RAY SPECTROSCOPY OF ENVIRONMENTAL SOIL SAMPLES USING THE SGM BEAMLIN AT THE CLS**

Author(s): Andrea Regiera, Tom Regierb, Tracy Walkerb, Matt Dalzellb, Daniel Howieb, Julie Thompsonc, Robert Blythb a St. Joseph High School, Saskatoon, bCanadian Light Source, cUniversity of Western Ontario

**Abstract # 58**

**Title: VLS-PGM BEAMLIN AT THE CANADIAN LIGHT SOURCE**

Author(s): Yongfeng Hu and Lucia Zuin, Canadian Light Source Inc

**Abstract # 59**

**Title: FRONT END X-RAY BEAM POSITION MONITORS AT THE CANADIAN LIGHT SOURCE**

Author(s): Sheldon Smith, Canadian Light Source Inc.

**Abstract # 60**

**Title: SYLMAND - SYNCHROTRON LABORATORY FOR MICRO AND NANO DEVICES**

Author(s): Sven Achenbach<sup>a,c,d</sup>, D. Klymyshyna<sup>c</sup>, Venkat Subramanian<sup>b</sup>, Garth Wells<sup>a</sup>, J. Mohrd, Teodor Verese. <sup>a</sup>University of Saskatchewan, Saskatoon, Canada; <sup>b</sup>Canadian Light Source, Saskatoon, Canada; <sup>c</sup>TRLabs of Canada, Saskatoon, Canada; <sup>d</sup>Forschungszentrum Karlsruhe

**Abstract # 61**

**Title: PROGRESS WITH SM COMMISSIONING (START OF EPU OPERATION)**

Author(s): CLS Soft X-ray Spectromicroscopy (SM) Beamline

**Abstract # 62**

**Title: LIQUID CRYSTALS UNDER X-RAY MICROSCOPE: ORDER PARAMETER AT SUB-MICRON SCALE**

Author(s): CLS Soft X-ray Spectromicroscopy (SM) Beamline

**Abstract # 63**

**Title: DESIGN AND COMMISSIONING OF THE CANADIAN MACROMOLECULAR CRYSTALLOGRAPHY FACILITY 08ID-1 BEAMLINE AT THE CANADIAN LIGHT SOURCE**

Author(s): Pawel Grochulski <sup>1,2</sup>, Ingvar Blomqvist<sup>1</sup> Alan Duffy<sup>1</sup>, Russ Berg<sup>1</sup>, Mike McKibben<sup>1</sup> and Louis Delbaere<sup>2</sup>. <sup>1</sup>Canadian Light Source, <sup>2</sup>University of Saskatchewan, Saskatoon, Canada

**Abstract # 64**

**Title: VESPERS BEAMLINE FOR MICRODIFFRACTION AND X-RAY FLUORESCENCE STUDIES**

Author(s): Renfei Feng<sup>1</sup>, Stewart McIntyre<sup>2</sup>, Gene Ice<sup>3</sup>, Andrea Gerson<sup>4</sup>, Ruben Reininger<sup>4</sup> and Thomas Kotzer<sup>1</sup>. <sup>1</sup>Canadian Light Source; <sup>2</sup>SSW-University of Western Ontario; <sup>3</sup>Oak Ridge National Laboratory; <sup>4</sup>University of South Australia; <sup>5</sup>Scientific Answers and Solutions

**Abstract # 65**

**Title: MID INFRARED SPECTROMICROSCOPY BEAMLIN**

Author(s): Tim May, Craig Hyett, Thomas Ellis; Canadian Light Source

**Abstract # 66**

**Title: BIOXAS: PROPOSED LIFE SCIENCE BEAMLINES FOR X-RAY ABSORPTION SPECTROSCOPY AT THE CANADIAN LIGHT SOURCE**

Author(s): Ingrid J. Pickering<sup>1</sup>, Graham N. George<sup>1</sup> and Helen Nichol<sup>2</sup>. <sup>1</sup>Department of Geological Sciences, University of Saskatchewan; <sup>2</sup>Department of Anatomy and Cell Biology, University of Saskatchewan

**Abstract # 67**

**Title: OVERVIEW OF THE CANADIAN LIGHT SOURCE**

Author(s): Thomas Ellis, William Thomlinson, Mark de Jong, Emil Hallin and Jeff Cutler; Canadian Light Source Inc.