

TIME HEURE	Room/salle DS-121	Room/salle MN-40	Room/salle KM-237	Room/salle AV-C
07h00	Meeting of the CAP-NSERC Liaison Committee (07h00-09h00) - Faculty Lounge			
08h30				
09h15				
	<b>WE-A1 (DAMP-DOP DPAM-DOP)</b> <b>ULTRAFAST SCIENCE AND APPLICATIONS / PHÉNOMÈNES ULTRARAPIDES ET APPLICATIONS</b> Chair: D. Villeneuve, NRC	<b>WE-A2 (DCMMP/DPMC)</b> <b>MATERIALS SCIENCE I / SCIENCE DES MATÉRIAUX I</b> Chair: D. Taylor, Queen's U.	<b>WE-A3 (DIMP/DPI)</b> <b>OVERVIEW OF INSTRUMENTATION AND MEASUREMENT RESEARCH IN NORTH AMERICA I / SURVOL DE LA RECHERCHE EN INSTRUMENTATION ET MESURES EN AMÉRIQUE DU NORD I</b> Chair: A. Mandelis, U.Toronto	<b>WE-A4 (DTP/DPT)</b> <b>THEORY I / THÉORIE I</b> Chair: R. MacKenzie, U.Montreal
10h00	<b>JUNGREUTHMAYER, Christian</b> U. Ottawa <i>Matter in Strong Laser Fields (WE-A1-1)</i>	<b>SCHLESINGER, Mordechay</b> U. Windsor <i>Numeric Methods in Solving Rough Surface Contact Problems (WE-A2-1)</i>	<b>POLLAK, Fred H.</b> Brooklyn College of the City University of New York <i>Non-Destructive Room-Temperature Characterization of Wafer-sized III-V Semiconductor Device Structures using Contactless Electromodulation and Surface Photovoltage Spectroscopy (WE-A3-1)</i>	<b>MCKEON, Gerry</b> UWO <i>Extracting Information from the Renormalization Group (WE-A4-1)</i>
10h30	<b>A.I. Pegarkov (c)</b> U. Toronto <i>Giant Above-Threshold Absorption and Cascade Ionization in Diatomic Molecules Induced Byfemtosecond Pulses of Strong Lasers (WE-A1-2)</i>	<b>ROBBIE, Kevin</b> Queen's U. <i>Geometrical Effects in Ballistic Aggregation of Thin Films (WE-A2-2)</i>	↓	<b>M.N. Tran (c)</b> McMaster U. <i>Number Fluctuation and the Fundamental Theorem of Arithmetic (WE-A4-2)</i>
10h45	<b>A.I. Pegarkov (c)</b> U. Toronto <i>One-Photon Versus Three-Photon Control of Molecular Photo-Absorption: Role of Non-Linear Temporal Wave Interference (WE-A1-3)</i>	↓	Coffee break / Pause café	Coffee break / Pause café
11h00	Coffee Break / Pause café	Coffee break / Pause café	↓	↓
11h15	↓	↓	<b>CHARBONNEAU, Sylvain</b> NRC <i>Nanotechnology - An Integration Challenge (WE-A3-2)</i>	<b>ELIAS, Victor</b> Perimeter Institute <i>Radiative Spontaneous Symmetry-Breaking Revisited (WE-A4-3)</i>
11h30	<b>LITVINYUK, Igor</b> NRC <i>Molecules in Strong Laser Field: Ionization, Re-scattering and Coulomb Explosion (WE-A1-4)</i>	<b>M.D. Fleischauer (c)</b> Dalhousie U. <i>How a Physicist Can Do an Electrochemist's Work Sixty-Four Times Faster (WE-A2-3)</i>		
11h45		<b>M.D. Fleischauer (c)</b> Dalhousie U. <i>Combinatorial Investigations of the Si-Al-Mn Ternary System (WE-A2-4)</i>		<b>M.R.A. Shegelski (c)</b> UNBC <i>Quantum vs. Quasi-classical Decay Times (WE-A4-4)</i>

Room/salle AV-B	Room/salle CS-104	Room/salle AV-A	Room/salle AV-D	TIME HEURE
Réunion du comité de liaison ACP-CRSNG (07h00-09h00) - Faculty Lounge				07h00
		<b>WE-Plen-1 DS-121</b> Plenary Session plénière (CAP Medal for Outstanding Achievement in Industrial and Applied Physics winner - récipiendaire de la médaille de l'ACP pour contributions exceptionnelles en physique industrielle et appliquée) Chair: M. Thewalt, SFU <b>STANDING, Kenneth G. U. Manitoba</b> <i>Clocking the Big Ones: Time-of-Flight Mass Spectrometry of Biomolecules- One Thousand to One Million u (WE-Plen-1)</i>		08h30
		<b>WE-Plen-2 DS-121</b> Plenary Session plénière Chair: M. Vinster, U.Alberta <b>SCOTT, Douglas UBC</b> <i>The Cosmic Microwave Background vs the Universe (WE-Plen-2)</i>		09h15
<b>WE-A5 (DPP)</b> <b>SPECIAL ITER SESSION / ISESSION ITER SPÉCIALE</b> Chair: C. Boucher, U.Québec	<b>WE-A6 (DMBP/DPMB)</b> <b>COMPUTATIONAL BIOPHYSICS / BIOPHYSIQUE COMPUTATIONNELLE</b> Chair: J. Polson, UPEI	<b>WE-A7 (DNP/DPN)</b> <b>NUCLEAR ASTROPHYSICS / ASTROPHYSIQUE NUCLÉAIRE</b> Chair: J. d'Áuria, SFU	<b>WE-A8 (DIAP/DPIA)</b> <b>BIOMEDICAL APPLIED PHYSICS / PHYSIQUE BIOMÉDICALE APPLIQUÉE</b> Chair: R. Maev, U.Windsor R. Roy, U.Laval	
<b>STEWART, M.</b> to be announced / à venir (WE-A5-1)	<b>CHEN, Jeff</b> U. Waterloo <i>Understanding Protein Folding from Polymer Models (WE-A6-1)</i>	<b>GOERRES, Joachim</b> U. of Notre Dame <i>Alpha-Capture in Stellar Evolution and Explosion (WE-A7-1)</i>	<b>ZEDEL, Len</b> MUN <i>The Capabilities and Limitations of Doppler Sonar for Monitoring Fish Movements (WE-A8-1)</i>	10h00
↓	<b>LINHANANTA, Apichart</b> Lakehead U. <i>Molecular Simulation Models of Protein Folding: New Insights on the Levinthal Paradox and the Occurrence of Protein-Folding Diseases (WE-A6-2)</i>	<b>JOSE, Jordi</b> Universitat Politècnica de Catalunya <i>Classical Novae as Laboratories for Nuclear Astrophysics: from Lithium to Calcium (WE-A7-2)</i>	<b>MAEVA, Elena</b> U. Windsor <i>Method of Acoustic Microscopy for Sex Determination of Sea Lamprey, Petromyzon Marinus Larvae (WE-A8-2)</i>	10h30
<b>GUNN, James P.</b> CEA Cadarache <i>The Tunnel Probe : A DC Probe Diagnostic for Electron Temperature Measurements in Magnetized Plasmas (WE-A5-2)</i>	↓	↓	↓	10h45
↓	Coffee break / Pause café	Coffee break / Pause café	<b>John Rather (c)</b> Wayne State U. <i>Ultrasound Imaging - Tissue Diagnostics, and Treatment (WE-A8-3)</i>	11h00
Coffee Break / Pause café	↓	<b>PARKER, Peter</b> Yale U. <i>Laboratory Studies of Explosive Nucleosynthesis (WE-A7-3)</i>	Coffee break / Pause café	11h15
<b>FUNDAMENSKI, W.</b> Euratom/EUKAEA Fusion Assoc. <i>Energy Transport in Tokamak Boundary Plasmas: laminar or turbulent? (WE-A5-3)</i>	<b>RUTENBERG, Andrew</b> Dalhousie U. <i>Pattern Formation Inside Bacteria (WE-A6-3)</i>	↓	<b>VITKIN, Alex</b> U. Toronto <i>Polarized Light as a Tool for Biological Tissue Investigation (WE-A8-3)</i>	11h30
↓	↓	<b>CHEN, Alan A.</b> McMaster U. <i>The ISAC Program in Experimental Nuclear Astrophysics (WE-A7-4)</i>	↓	11h45

TIME HEURE	Room/salle DS-121	Room/salle MN-40	Room/salle KM-237	Room/salle AV-C
12h00	<b>T. Crawford</b> (c) McMaster U. <i>Femtosecond Laser Micromachining of Silicon at 400 nm and 800 nm Wavelengths (WE-A1-5)</i>	<b>W. Sears</b> (c) Lakehead U. <i>The Effect of Humidity on the Electrical Susceptibility of Mesoporous Silicates formed from Organosilane Substitution on Octylamine Micelles (WE-A2-5)</i>	<b>DJORDJEVIC, B. Boro</b> Johns Hopkins U. <i>Remote Non-Contact Ultrasonic Sensing (WE-A3-3)</i>	<b>J. Sakhr</b> (c) McMaster U. <i>The Riemann Zeta Function Zeros and the Prime Number Sequence (WE-A4-5)</i>
12h15	Session ends / Fin de la session	Session ends / Fin de la session	<b>Session Ends at 12h45 / Se termine à 12h45</b>	<b>G. Slater</b> (c) U. Ottawa <i>Building Lattice Random-Walk Models for Drift and Diffusion Problems (WE-A4-6)</i>
12h30	<b>Room/Salle DS-210</b> DOP Business Mtg Ends at 13h30 Réunion d'affaires DOP Se termine à 13h30		<b>DIMP Business Mtg</b> Ends at 13h30 Réunion d'affaires DPIM Se termine à 13h30	Session ends / Fin de la session <b>New Faculty Luncheon / Déjeuner pour les nouveaux professeurs - Faculty Lounge</b>
13h30			<b>NSERC Workshop KC-104</b> Special Session spéciale Chair: M. Beaudry, NSERC <b>Workshop on how to prepare a grant application.</b>	
TIME HEURE		Room/salle MN-40	Room/salle KM-237	Room/salle AV-D
		<b>WE-P1 (DCMMP-DPMC)</b> <b>MATERIALS SCIENCE II / SCIENCE DES MATÉRIAUX II</b> Chair: M. Schlesinger, Windsor U.	<b>WE-P2 (DIMP/DPIM)</b> <b>OVERVIEW OF INSTRUMENTATION AND MEASUREMENT RESEARCH IN NORTH AMERICA II / SURVOL DE LA RECHERCHE EN INSTRUMENTATION ET MESURES EN AMÉRIQUE DU NORD II</b> Chair: A. Mandelis, U.Toronto	<b>WE-P3 (DNP/DPN)</b> <b>SYMMETRIES IN NUCLEAR PHYSICS / SYMÉTRIES EN PHYSIQUE NUCLÉAIRE</b> Chair: J. Svenne, U.Manitoba
14h15		<b>R. Bruening</b> (c) Mount Allison U. <i>Scanning Calorimetry Measurements of the Glass Transition in Vitreous Silica (WE-P1-1)</i>	<b>GANGAVARAPU, Kiran</b> U. Pennsylvania <i>Recent Developments in Photon Migration (WE-P2-1)</i>	<b>TOWNER, Ian</b> Queen's U. <i>Superallowed Beta Decay: The Determination of Vud (WE-P3-1)</i>
14h30		<b>J.H. Brewer</b> (c) UBC <i><math>\mu^s</math>SR with Nonzero-Spin Nuclei (WE-P1-2)</i>	↓	↓
14h45		<b>M. Bourgeois</b> (c) U. Laval <i>Optimizing Crystallization in RF-Sputtered YBCO Thin Films (WE-P1-3)</i>	↓	<b>VAN OERS, Willem</b> U. Manitoba <i>QWeak, A Search for New Physics (WE-P3-2)</i>
15h00		<b>G. Ross</b> (c) INRS-Énergie et Matériaux <i>Effect of Electric Charge Accumulation on Insulators During Low Energy Ion Implantation (WE-P1-4)</i>	Coffee break / Pause café	↓
15h15		Coffee break / Pause café	↓	<b>H.S. Sherif</b> (c) U. Alberta <i>Non-Locality Effects in the Photo-Production of Eta Mesons on Nuclei (WE-P3-3)</i>

Room/salle AV-B	Room/salle CS-104	Room/salle AV-A	Room/salle AV-D	TIME HEURE
<b>MORELLI, Jordan</b> U. Saskatchewan <i>Plasma Position Control in the STOR-M Tokamak Using A Fuzzy Logic Approach (WE-A5-4)</i>	<b>J. Chakrabarti (c)</b> S.N. Bose National Centre for Basic Sciences <i>Kinetics of a Sphere Attached to a Fluctuating Polymer (WE-A6-4)</i>		<b>G. Beer (c)</b> U. Victoria <i>From Particle Physics Detectors to Medical Applications (WE-A8-4)</i>	12h00
	<b>J. Bechhoefer (c)</b> Simon Fraser U. <i>Role of Polymer Loops in DNA Replication (WE-A6-5)</i>	<b>J.A. Clark (c)</b> U. Manitoba/Argonne <i>'Stellar' measurements using the Canadian Penning Trap Mass Spectrometer (WE-A7-5)</i>	<b>R. Roy (c)</b> U. Laval <i>Physics and Engineering Physics: an Education and Training Pathway to Radiation Oncology Physics (WE-A8-5)</i>	12h15
Session ends / Fin de la session	Session ends / Fin de la session	Session ends / Fin de la session	Session ends / Fin de la session	12h30
		<b>DNP Business Mtg</b> Ends at 13h30 Réunion d'affaires DPN Se termine à 13h30	<b>DIAP Business Mtg</b> Ends at 13h30 Réunion d'affaires DPIA Se termine à 13h30	
		<b>WE-Plen-3 DS 121</b> Plenary Session plénière Chair: Y. Tsui, U. Alberta <b>KIEFFER, Jean-Claude</b> INRS <i>The Advanced Laser Light Source (ALLS) International Facility (WE-Plen-3)</i>		13h30
Room/salle AV-B	Room/salle AV-C	Room/salle AV-A		TIME HEURE
<b>WE-P4 (DPP)</b> <b>ITER-FUSION SESSION / SESSION ITER-FUSION</b> Chair: C. Boucher, U. Québec	<b>WE-P5 (DTP/DPT)</b> <b>THEORY II / THÉORIE II</b> Chair: M. Shegelski, UNBC	<b>WE-P6 (DMBP/DPMB)</b> <b>FRONTIERS IN MEDICAL AND BIOLOGICAL PHYSICS / FRONTIÈRES EN PHYSIQUE MÉDICALE ET BIOLOGIQUE</b> Chair: A. Pejovic-Milic, Ryerson U.		
<b>ALLAIS, Fabrice</b> INRS/U. Québec <i>Atomic Physics Rates and Non-local Electron Parallel Heat Transport in Divertor Plasmas (WE-P4-1)</i>	<b>AZZOUZ, Mohamed</b> Laurentian U. <i>Rotating Antiferromagnetism and The Pseudogap Phase of Copper-Oxide Superconductors (WE-P5-1)</i>	<b>R.L. Clarke (c)</b> Carleton U. <i>Tumour Treatment by High Intensity Focused Ultrasound Past Barriers (WE-P6-1)</i>		14h15
↓	↓	<b>D. Côté (c)</b> U. Toronto <i>Non-Invasive Blood Glucose Monitoring with Polarized Light (WE-P6-2)</i>		14h30
<b>LIU, Dazhi</b> U. Saskatchewan <i>Development of Curved Drift Tube for Vertical Compact Torus Injection into STOR-M Tokamak (WE-P4-2)</i>	<b>G.C. McGuire (c)</b> U.C.F.V. <i>The Trajectories of a Golf Ball that is Experiencing Nonlinear Lift and Drag (WE-P5-2)</i>	<b>L. Chin (c)</b> U. Toronto <i>Optical Monitoring of Interstitial Laser Photocoagulation (WE-P6-3)</i>		14h45
↓	Coffee break / Pause café	Coffee break / Pause café		15h00
<b>R. Marchand (c)</b> U. Alberta <i>Finite Element Modelling of the HT-7U SOL (WE-P4-3)</i>	↓	<b>S.C. Hardacre (c)</b> Ryerson U. <i>Influence of Strontium Levels in Bone on Dual-Energy X-Ray Absorptiometry (WE-P6-4)</i>		15h15

TIME HEURE	ITEC Teletheatre	Room/salle MN-40	Room/salle KM-237	Room/salle AV-D
15h30		↓	<b>SÁNCHEZ SINENCIO, Feliciano</b> CINESTAV <i>Biomaterials Research Activities in CINVESTAV (WE-P2-2)</i>	Coffee break / Pause café
15h45		<b>H. Arabshahi (c)</b> Tarbiat Moallem U. <i>Effect of Polarization Charges and Trapping Centers on Electron Transport Properties of Al<sub>0.2</sub>Ga<sub>0.8</sub>N/GaN HFETs (WE-P1-5)</i>	↓	↓
16h00		<b>S.D. Beattie (c)</b> Dalhousie U. <i>Comparison of Electrodeposited Copper-zinc Alloys Prepared Individually and Combinatorially (WE-P1-6)</i>	↓	<b>PAGE, Shelley A.</b> U.Manitoba <i>Measurement of the Parity-Violating Asymmetry in Radiative Neutron- Proton Capture (WE-P3-4)</i>
16h15		<b>T.D. Hatchard (c)</b> Dalhousie U. <i>Structure and Composition of Gd<sub>1-x</sub>Co<sub>x</sub> and Gd<sub>1-x</sub>Fe<sub>x</sub> Thin Films Produced by Combinatorial Sputtering (WE-P1-7)</i>	Session ends / Fin de la session	↓
16h30		Session ends / Fin de la session		<b>OPPER, Allena K.</b> Ohio U. <i>Measuring Charge Symmetry Breaking in <math>n+p \Rightarrow d\pi^0</math> (WE-P3-5)</i>
16h45				↓
17h00	CAP Council Meeting (New and Old) / Réunion du Conseil de l'ACP (nouveau et ancien)			Session ends / Fin de la session
17h15				

*Next CAP Annual Congress*

*2004 June 13-16*

*at the Delta Hotel, Winnipeg, Manitoba*

*-- Joint with CASCA, COMP, and BSC --*

Room/salle AV-B	Room/salle AV-C	Room/salle AV-A		TIME HEURE
Coffee break / Pause café	<b>G.C. McGuire</b> (c) U.C.F.V. <i>A Model and a Demonstration of the Strange Effects Produced by the Nonlinear Eardrum (WE-P5-3)</i>	Session ends / Fin de la session		15h30
<b>KAGANOVICH, Igor</b> Princeton U. <i>Analytical and Numerical Studies of Ion Beam Plasma Interactions for Heavy Ion Driven Inertial Fusion (WE-P4-4)</i>	<b>TEMPESTA, Piergiulio</b> U.Montréal <i>Symmetry Preserving Discretization of Quantum Systems (WE-P5-4)</i>			15h45
↓	↓			16h00
<b>A. Ito</b> (c) U. Saskatchewan <i>Non-local Analysis of Ion Acoustic Instability With Sheared Parallel Flow (WE-P4-5)</i>	<b>J. Sadler</b> (c) U. Windsor <i>Ultrasound Propagation in a Thin Anisotropic Layer Between Two Media: Theory, Computer Model, and Experiment (WE-P5-5)</i>			16h15
Session ends / Fin de la session	<b>L. Livadaru</b> (c) Dalhousie U. <i>Interacting Chain Model for Poly(ethylene glycol) from First Principles -- Stretching of a Single Molecule using the Transfer Matrix Approach (WE-P5-6)</i>			16h30
	<b>M.-A. Vachon</b> (c) U.Montréal <i>Critical Magnetic Fields in the SO(5) Model (WE-P5-7)</i>			16h45
	<b>G.W. Semenoff</b> (c) UBC <i>AdS/CFT and the Phase Diagram of Super-Yang-Mills Theory (WE-P5-7)</i>			17h00
	Session ends / Fin de la session			17h15

*Prochain Congrès annuel de l'ACP*

*13-16 juin 2004*

*à l'Hotel Delta, Winnipeg, Manitoba*

*-- En collaboration avec CASCA, OCPM, et SCB --*