

INVITED SPEAKERS / CONFÉRENCIERS INVITÉS

(in alphabetical order / selon l'ordre alphabétique)

ALLAIS, Fabrice (DPP)
INRS-Université du Québec

Atomic Physics Rates and non-local Electron Parallel Heat Transport in Divertor Plasmas

ARGALL, P. Stephen (DASP)
University of Western Ontario

Development of the Gravity Wave Imager (GWIM) Mission at University of Western Ontario

ASHCROFT, Neil W. (DCMMP-DMBP / DPMCM-DPMB)
Cornell University

Classical and Quantal Order in the Light Elements at High Densities

AZZOUZ, Mohamed (DTP / DPT)
Laurentian University

Rotating Antiferromagnetism and The Pseudogap Phase of Copper-Oxide Superconductors

BARZDA, Virginijus (DOP)
University of Toronto

Imaging Cardio-Myocytes Simultaneously with Second- and Third-Harmonic Generation and Multi-Photon Excitation Fluorescence Microscopy

BERNATH, Peter F. (DASP)
University of Waterloo

The Atmospheric Chemistry Experiment (ACE): Overview and Status

BRABEC, Thomas (DAMP / DPAM)
University of Ottawa

Matter in Strong Laser Fields

BRUNET, François (DOP)
INO, Centre d'optique, photonique et laser (COPL), Université Laval

Ytterbium-Doped Fiber Lasers for Frequency Conversion Applications

BURGESS, Cliff (DTP / DPT)
McGill University

Are Inflationary Predictions Sensitive to Very High Energy Physics?

BURNS, Peter N. (DMBP / DPMB)
University of Toronto

Measuring Tissue Perfusion with Microbubbles and Nonlinear Ultrasound Imaging

CARBOTTE, Jules (DCMMP-DMBP / DPMCM-DPMB)
Dalhousie University

Superconductivity Past and Future

CHARBONNEAU, Sylvain (DIMP / DPIM)
National Research Council of Canada

Nanotechnology - an Integration Challenge

CHBIHI, Abdelouahad (DNP / DPN)
Ganul, Caen

Dynamical and Statistical Aspects of the Nuclear Multifragmentation

CHEN, Alan (DNP / DPN)
McMaster University

The ISAC Program in Experimental Nuclear Astrophysics

CHEN, Jeff (DMBP / DPMB)
University of Waterloo

Understanding Protein Folding from Polymer Models

CHOPTUIK, Matthew
University of British Columbia

(CAP/CRM Medal winner -
récipiendaire de la médaille ACP/CRM)

Critical Phenomena in Gravitational Collapse

CHRISTOFIDES, Constantinos (DIMP / DPIM)
University of Cyprus, CYRPUS

Detection of Hydrogen via Modulated Thermoreflectance

CORRIVEAU, François (PPD / PPD)
McGill University

Report on the Linear Collider

CZAJKOWSKI, Andrzej (DAMP / DPAM)
National Research Council

Development and Study of a 1.5 micron Optical Frequency Standard at National Research Council

CZEREMUSZKIN, Grzegorz (DPP / DPP)
École Polytechnique de Montréal

Plasma Enhanced Chemical Vapor Deposition of Barrier Coatings on Plastics

DAMASCELLI, Andrea (DCMMP / DPMCM)
University of British Columbia

Probing the Electronic Structure of Complex Systems by State-of-the-Art ARPES

DEKEMP, Robert (DMBP / DPMB)
University of Ottawa Heart Institute

Absolute and Relative Flow Imaging with PET

DJORDJEVIC, B. Boro (DIMP / DPIM)
Johns Hopkins University

Remote Non-Contact Ultrasonic Sensing

DONOVAN, Eric (DASP)
University of Calgary/Waterloo

Energy Dependence of the Latitude of The Ion Isotropy Boundary

DOSANJH, Ranpal Singh (PPD / PPD)
Carleton University

Recent Results from the Sudbury Neutrino Observatory

DRUMMOND, James R. (DASP)
University of Toronto

The Atmosphere from Space - the Future of Space Measurements

DUCK, Thomas J. (DASP)
Dalhousie University

Lidar Measurements in Canada – Past, Present, and Future Prospects

ELIAS, Victor (DTP / DPT)
Perimeter Institute for Theoretical Physics

Radiative Spontaneous Symmetry-Breaking Revisited

EMERSON, Carolyn (CEWIP / CEFEP)
Memorial University of Newfoundland

Becoming Leaders: Career Success for Women in Science

FEDER, David (DAMP / DPAM)
University of Calgary

Rotating Bose-Einstein Condensates in Optical Lattices

FLEMING, David E.B. (DMBP / DPMB)
Mount Allison University

Detecting Lead in Bone Using X-ray Fluorescence

FUNDAMENSKI, W. (DPP / DPP)
Euratom/UKAEA Fusion Association

Energy Transport in Tokamak Boundary Plasmas: laminar or turbulent?

GANGAVARAPU, Kiran (DIMP / DPIM)
University of Pennsylvania

Recent Developments in Photon Migration

GARNEAU, Marc (CAP / ACP)
Canadian Space Agency

The Space Between - From the Great, White North to the Final Frontier / Du Grand Nord à la frontière ultime

GAULIN, Bruce D. (DCMMP / DPMCM)
McMaster University

Canadian Participation at the Spallation Neutron Source

GEGENBERG, Jack (DTP / DPT)
University of New Brunswick

Using Gravity to Understand Topology

GLYDE, Henry R. (DCMMP / DPMCM)
University of Delaware

Elementary Excitations, Bose-Einstein Condensation and Superfluidity in Liquid 4He

GOERRES, Joachim (DNP / DPN)
Notre Dame University

Alpha-Capture in Stellar Evolution and Explosion

GREEN, John-Bruce (DMBP / DPMB)
University of Alberta

Developments of Atomic Force Microscopy for Enhanced Chemical and Biological Discrimination

GREVEN, Martin (DCMMP / DPMCM)
Stanford University

Quantum versus Geometric Disorder in a Two-Dimensional Heisenberg Antiferromagnet

GRUTTER, Peter (DCMMP / DPMCM)
McGill University

The NSERC Nano Innovation Platform: an Update

GUNN, James P. (DPP / DPP)
CEA Cadarache, France

The Tunnel Probe : A DC Probe Diagnostic for Electron Temperature Measurements in Magnetized Plasmas

HACKMAN, Greg (DNP / DPN)
TRIUMF

A New Era of High Resolution Gamma-Ray Spectroscopy at TRIUMF-ISAC

HAWKES, Bob (DPE / DEP)
Mount Allison University

Learning Physics by Experiencing Physics

HEINRICH, B. (DCMMP-DMBP / DPMCM-DPMB)
Simon Fraser University

Non Equilibrium Spin Momentum Transport in Magnetic Ultrathin Film Structures

HOCKING, Wayne K. (DASP)
University of Western Ontario

The Role of Canadian Radars in Middle Atmosphere Studies

HOCKING, Wayne K. (DASP)
University of Western Ontario

Applications of a World-Wide Network of Mesospheric Radars

HUNT, James (DPE / DEP)
University of Guelph

On-line Learning in Physics Courses and Thoughts About Aiding Problem Solving

JENNINGS, Byron (PPD / PPD)
TRIUMF

SNOING on Nuclear Theory

JOSE, Jordi (DNP / DPN)
Universitat Politècnica de Catalunya

Classical Novae as Laboratories for Nuclear Astrophysics: from Lithium to Calcium

KAGANOVICH, Igor (DPP / DPP)
Princeton University

Analytical and Numerical Studies of Ion Beam Plasma Interactions for Heavy Ion Driven Inertial Fusion

KANAYA, Naoko (PPD / PPD)
University of Victoria

Physics beyond the Standard Model at the LHC experiments

KHAKZAD, Mohsen (PPD / PPD)
Carleton University

ATLAS Experiment and the Canadian Contribution

KIEFFER, Jean-Claude (DPP / DPP)
INRS - Université du Québec

The Advanced Laser Light Source (ALLS) International Facility

KIEFL, Robert (DCMMP-DMBP / DPMCM-DPMB)
TRIUMF, CIAR and University of British Columbia

Beta- Detected NMR with Low Energy Spin Polarized Radioactive Nuclei and its Applications in Condensed Matter

KONAKA, Akira (PPD / PPD)
TRIUMF

JHF-SuperK Long Baseline Neutrino Oscillation Project

KREUZER, Jürgen (DSS)
Dalhousie University

Theory of Surface Processes: From Atoms to Polymers

LAUE, Hans (DPE / DEP)
University of Calgary

Concept Teaching and Learning with MAP

LAWRIE, David (DCMMP / DPMCM)
University of Illinois

Isotope Effects in Superconductors and Oxide Materials

LEE, Ting-Yim (DMBP / DPMB)
Lawson Health Research Institute

Measurement of Tissue Perfusion with CT

LE HUR, Karyn (DCMMP / DPMCM)
Université de Sherbrooke

Revival of Kondo physics with Nanotechnology

LINHANANTA, Apichart (DMBP / DPMB)
Lakehead University

Molecular Simulation Models of Protein Folding: New Insights on the Levinthal Paradox and the Occurrence of Protein-Folding Diseases

LITVINYUK, Igor (DAMP / DPAM)
National Research Council

Molecules in Strong Laser Field: Ionization, Re-scattering and Coulomb Explosion

LIU, Dazhi (DPP / DPP)
University of Saskatchewan

Development of Curved Drift Tube for Vertical Compact Torus Injection into STOR-M Tokamak

LIU, William (DASP)
Canadian Space Agency

Scientific Challenges of International Living With a Star

LLEWELLYN, Edward J. (DASP)
University of Saskatchewan

OSIRIS - Some Highlights of Two Years Successful Operation

LONGTIN, Jon P. (DIMP / DPIM)
SUNY - Stony Brook, U.S.A.

Ultrafast Laser Micromachining of Thermal Spray Materials Using Laser Induced Breakdown Spectroscopy

LOPINSKI, Gregory (DSS)
Steacie Institute, NRC Ottawa

Molecular Electronics on Silicon Surfaces

LUKE, Michael E.
University of Toronto

(CAP Herzberg Medal winner -
récipiendaire de la médaille ACP Herzberg)

The Heavy Quark Expansion: Recent Results

LUNDEEN, Jeffrey S. (DOP)
University of Toronto

Playing Games with Quantum Information: Experiments with Photons and Laser-Cooled Atoms

MACKENZIE, Hugh A. (DIMP / DPIM)
Heriot Watt University, UK

Applications of Photoacoustic Spectroscopy to the Life Sciences

MACKENZIE, Richard (DTP / DPT)
Université de Montréal

Interaction Between Vortices in Models With Two Order Parameters

MAEV, Roman G. (DIAP / DPIA)
University of Windsor

Recent Development in Quantitative Acoustic Microscopy Methods

MAEVA, Elena (DIAP / DPIA)
University of Windsor

*Method of Acoustic Microscopy for Sex Determination of Sea Lamprey, *Petromyzon Marinus* Larvae*

MANDELIS, Andreas (DIMP / DPIM)
University of Toronto

Infrared Photo-Carrier Radiometry of Semiconductors: Physical Principles, Quantitative Depth Profilometry and Scanning Imaging of Deep Sub-surface Electronic Defects

MANN, Ian Robert (DASP)

University of Alberta

The Role of Global Scale ULF Waves in Driving Magnetospheric Dynamics: CANOPUS and Beyond

MANN, Robert (DTP / DPT)

University of Waterloo

Chaos in 3-body Relativistic Self-Gravitating Systems

MARSHALL, Glen (PPD / PPD)

TRIUMF

First Data from the TWIST Experiment

MARSIGLIO, Frank (DCMMP / DPMCM)

University of Alberta

How Do You Determine the Mechanism of Superconductivity

MARTIN, John (PPD / PPD)

University of Toronto

News and Results from ZEUS at HERA

MCDADE, Ian C. (DASP)

York University

SWIFT - The Stratospheric Wind Interferometer For Transport studies

MCDONALD, Art

Queen's University

(CAP Medal of Achievement winner -
récipiendaire de la médaille de l'ACP pour contributions exceptionnelles à la physique)

A Deeper Understanding of Our Universe from 2 km Underground

MCELROY, C. Thomas (DASP)

ARQX, Meteorological Service of Canada

Ozone Measurement in Canada: From Research to Operations

MCKELLAR, A.R.W. (DAMP / DPAM)

National Research Council Canada

Far Infrared Beamline at the Candian Light Source

MCKENNA, Janis (PPD / PPD)

University of British Columbia

CP Violation in the B Meson System

MCKEON, Gerry (DTP / DPT)

University of Western Ontario

Extracting Information from the Renormalization Group

MCWILLIAMS, Kathryn (DASP)

University of Saskatchewan

SuperDARN - The Super Dual Auroral Radar Network

MENON, Ravi (DMBP / DPMB)

Robarts Research Institute

Measurement of Oxygen Consumption Using MRI

MOEWES, Alexander (DCMMP / DPMCM)

University of Saskatchewan

Soft X-Ray Spectroscopy at the Canadian Light Source: A Powerful Tool for Condensed Matter Physics

MONCHESKY, Theodore L. (DCMMP / DPMCM)

Dalhousie University

Electron Beam Stimulated Magnetic Domain Wall Motion

MORELLI, Jordan (DPP / DPP)

University of Saskatchewan

Plasma Position Control in the STOR-M Tokamak Using A Fuzzy Logic Approach

MORROW, Michael R. (DMBP / DPMB)

Memorial University of Newfoundland

Pressure-Induced Ordering in Lipid Bilayers

NANTEL, Marc (DPP / DPP)

Photonics Research Ontario/University of Toronto

Pulsetrain-Burst Laser-Matter Interactions in Solids and Tissues

NUMAO, Toshio (PPD / PPD)

TRIUMF

Status of rare kaon decay experiments at BNL

OPPER, Allena (DNP / DPN)

Ohio University

Measuring Charge Symmetry Breaking in $n+p \rightarrow d \pi^0$

PAGE, Shelley (DNP / DPN)

University of Manitoba

Measurement of the Parity-Violating Asymmetry in Radiative Neutron-Proton Capture

PARANJAPE, Manu B. (DTP / DPT)

Université de Montréal

Vortices in Noncommutative Chern-Simons Theory and the Quantum Hall Effect

PARKER, Peter (DNP / DPN)

Yale University

Laboratory Studies of Explosive Nucleosynthesis

PEARSON, Matthew (DNP / DPN)

TRIUMF

Nuclear Physics with Atomic Tools at ISAC

PEJOVIC-MILIC, Ana (DIMP / DPIM)

Ryerson University

Quantifying Strontium and Aluminum in Human Bone

PETERSEN, Nils O. (DMBP / DPMB)

University of Western Ontario

Molecular Domains in Membrane Systems

POLLAK, Fred H. (DIMP / DPIM)

Brooklyn College of the City University of New York

*Non-Destructive Room-Temperature Characterization of Wafer-sized III-V Semiconductor Device Structures using Contactless Electromodulation and Surface Photovoltage Spectroscopy***POPPITZ, Erich** (DTP / DPT)

University of Toronto

*Issues in Deconstruction and Lattice Supersymmetry***RAGAN, Ken** (PPD / PPD)

McGill University

*Ground-based gamma-ray astronomy with STACEE and VERITAS***RATHER, John** (DIAP / DPIA)

Wayne State University

*PAMELA Technologies for Ultra-Large, Low Cost Imaging Telescope***REDDISH, Tim** (DAMP / DPAM)

University of Windsor

*Photo-Double Ionisation of D2 and He***ROBBIE, Kevin** (DCMMP / DPMCM)

Queen's University

*Geometrical Effects in Ballistic Aggregation of Thin Films***ROY, René** (DNP / DPN)

Université Laval

*Time Scale in Heavy Ion Collisions at Intermediate Energy***RUTENBERG, Andrew D.** (DMBP / DPMB)

Dalhousie University

*Pattern Formation Inside Bacteria***RUTT, Brian K.** (DMBP / DPMB)

Robarts Research Institute

*Cardiovascular MRI***SAMOKHIN, Kirill** (DCMMP-DMBP / DPMCM-DPMB)

Brock University

*Superconductivity in Ferromagnets***SAMSON, John Craig** (DASP)

University of Alberta

*Major Scientific Results From the CANOPUS Experiment***SÁNCHEZ-SINENCIO, Feliciano** (DIMP / DPIM)

Centro de Investigación y Estudios Avanzados (CINESTAV), Mexico

*Biomaterials Research Activities in CINESTAV***SAWATZKY, George A.** (DCMMP / DPMCM)

University of British Columbia

*Resonant Soft X Ray Scattering ; A New Tool to Study Spin Charge and Orbital Distributions***SCHLESINGER, Mordechay** (DCMMP / DPMCM)

University of Windsor

*Numeric Methods in Solving Rough Surface Contact Problems***SCOTT, Douglas** (PPD)

University of British Columbia

*The Cosmic Microwave Background vs the Universe***SHEPHERD, Gordon G.** (DASP)

York University

*Canadian Contributions to International Investigations of the Atmospheric Environment: What Were They, and How Did They Come About?***SHIMODA, Tadashi** (DNP / DPN)

Osaka University

*Novel Structure of a Neutron Rich Nucleus ^{11}Be Proved by Spin-Polarized ^{11}Li Beam at TRIUMF-ISAC***SOUTHWOOD, David John**

European Space Agency

(CAP Herzberg Lecturer -
Conférencier Herzberg de l'ACP)*Space Near and Far - Exploring our Universe and our Place in It***STANDING, Kenneth G.**

University of Manitoba

(CAP Medal for Outstanding Achievement in Industrial
and Applied Physics winner -
récipiendaire de la médaille de l'ACP pour contributions excep-
tionnelles en physique industrielle et appliquée)*Clocking the Big Ones: Time-of-Flight Mass Spectrometry of
Biomolecules- One Thousand to One Million u***STERNIN, Edward** (DMBP / DPMB)

Brock University

*Recent Developments in the Measurement and Interpretation of
Biomembrane Order Parameters by ^2H NMR***ST-MAURICE, Jean-Pierre** (DASP)

University of Western Ontario

*What Can Be Learned From The Properties Of Two-Step Type I
waves In The Equatorial Electrojet***STORRY, C.H.** (DAMP / DPAM)

Harvard University

*Antihydrogen Production and Detection***STRONG, Kimberly** (DASP)

University of Toronto

*Observation of Atmospheric Composition Using Balloon-Borne and
Ground-Based Instruments***TAILLEFER, Louis**

Université de Sherbrooke

(Brockhouse Medal winner -
récipiendaire de la médaille Brockhouse)*Probing New States of Matter With Heat and Sound*

TEMPESTA, Piergiulio (DTP / DPT)
CRM Université de Montréal

Symmetry Preserving Discretization of Quantum Systems

TERAZIMA, Mosahide (DIMP / DPIM)
Kyoto University, Japan

A Novel Method to Study Structural and Energy Dynamics of Proteins From a View Point of Time-Resolved Thermodynamics

THYWISSEN, Joseph H. (DAMP / DPAM)
University of Toronto

One-Dimensional Phase Fluctuations in "Quasi" Bose-Einstein Condensates

TIMUSK, Tom (DCMMP / DPMCM)
McMaster University

The Two Pseudogaps in High Temperature Superconductors

TOENNIES, J. Peter (DSS)
Max-Planck Institut für Strömungsforschung

Diffraction of Matter Waves from Nanostructures: Novel Applications to Cluster and Surface Science

TOKARYK, Dennis (DAMP / DPAM)
University of New Brunswick

Spectroscopy of Carbon-Bearing Radicals: from the Interstellar Medium to the Hydrogen Fuel Cell

TOKARYK, Dennis (DPE / DEP)
University of New Brunswick

Research and Teaching: Synergetic Partners or Adversarial Antagonists?

TOWNER, Ian (DNP / DPN)
Queen's University

Superallowed Beta Decay: the Determination of V_{ud}

TOYODA, Taro (DIMP / DPIM)
University of Electro-Communications

Photo-Acoustic and Photo-Electrochemical Characterization of Nanostructured TiO₂ Electrodes

TRISCHUK, William (PPD / PPD)
University of Toronto

The CDF-II Experiment at Fermilab

TYSHETSKIY, Yuriy (DPP / DPP)
University of Saskatchewan

Anomalous and Nonlinear Effects in Inductively Coupled Plasmas

VAN OERS, Willem T.H. (DNP / DPN)
University of Manitoba

Qweak, A Search for New Physics

VARMA, Pravin (DPE / DEP)
Mount Allison University

Learning Physics by Experiencing Physics

VENUS, David (DCMMP / DPMCM)
McMaster University

Magnetic Relaxation in Exchange-Coupled Ferromagnetic/Antiferromagnetic Bilayer Films

VILLENEUVE, David (DPP / DPP)
National Research Council of Canada

Molecular Imaging at the Advanced Laser Light Source (ALLS)

VITKIN, Alex (DIAP / DPIA)
University of Toronto

Polarized Light as a Tool for Biological Tissue Investigation

WALKER, Philip (DNP / DPN)
TRIUMF

Nuclear Isomers: Energy and Spin

WEI, John (DCMMP / DPMCM)
University of Toronto

Nanoscale Phase Decoherence in High- T_c Superconductors

WILLIAMS, P.J. (DPE / DEP)
Acadia University

The Effectiveness of Computer-Based Studio Teaching of Physics

WORTIS, Rachel (DCMMP / DPMCM)
Trent University

Nuclear Magnetic Resonance in the Vortex State of Cuprate Superconductors

YANG, Victor X.D. (DMBP / DPMB)
University of Toronto

Doppler Optical Coherence Tomography of Tissue Microcirculation

YAU, Andrew (DASP)
University of Calgary

Ion Outflow and The Enhanced Polar Outflow Probe (e-POP) Project

YIP, Christopher M. (DMBP / DPMB)
University of Toronto

Protein-Based Supramolecular Architectures: Controlling Self-Assembly at Molecular Interfaces

ZACEK, Viktor (PPD / PPD)
Université de Montréal

Status of the PICASSO Dark Matter Search Project

ZEDEL, Len (DIAP / DPIA)
Memorial University of Newfoundland

High Frequency Wind Generated Sound in the Ocean

ZEDEL, Len (DIAP / DPIA)
Memorial University of Newfoundland

The Capabilities and Limitations of Doppler Sonar for Monitoring Fish Movements