

# Plenary Program

## Plenary Program (Chan Centre)

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Monday July 5 2010

**Chairs:** N. Lockyer (Canada)  
M. Oka (Japan)

*Opening Remarks*

08:30-08:45 *Opening talk*

08:45-09:30 *P. Braun-Munzinger (ExtreMe Matter Institute EMMI, GSI)  
Nuclear Physics: Present & Future*

**Session 1: Hot and Dense QCD**

09:30-10:00 J. Nagle (University of Colorado)  
*Hot QCD Matter: Lessons Learned Over the Past Decade, and New Questions for the Next Decade*

10:00-10:30 K. Fukushima (Yukawa Institute for Theoretical Physics)  
*Phases of QCD - Baryon Rich State of Matter*

**10:30-11:00 Coffee**

11:00-11:30 J. Y. Ollitrault (Institute of Theoretical Physics (IPhT))  
*Phenomenology of the Little Bang*

**Session 2: Hadrons in Nuclei**  
**Chairs:** J.P. Blaizot (France)  
M. Dong-Pil (Korea)

11:30-12:00 T. Nagae (Kyoto University)  
*Strangeness in Nuclear Physics*

12:00-12:30 E. Piassetzky (Tel Aviv University)  
*Nuclear Studies with Hard Knockout Reactions*

Tuesday July 6 2010

**Session 3: Nuclear Astrophysics**  
**Chairs:** A. Richter (Italy)  
R. Kanungo (Canada)

08:00-08:30 J. Blackmon (Louisiana State University)  
*What Do (and don't) We Understand About Explosive Nucleosynthesis?*

08:30-09:00 G. Imbriani (University of Naples "Federico II" and INFN section of Naples)  
*Direct Measurements of Cross Section of Astrophysical Interest*

09:00-09:30 C. Horowitz (Indiana University)  
*Neutron Rich Matter and Neutron Stars and Their Crusts*

09:30-10:00 T. Janka (Max Planck Institute for Astrophysics)  
*Core-collapse Supernovae as Testbed of Nuclear and Neutrino Physics*

**10:00-10:30 Coffee**

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## Session 4: Nuclear Reactions

**Chairs:** J. Stachel (Germany)  
S. Gales (France)

- 10:30-11:00 P. Roussel-Chomaz (GANIL)  
*Reactions with Exotic Nuclei: Recent Results and Challenges*
- 11:00-11:30 P. Navratil (Lawrence Livermore National Laboratory)  
*Ab Initio Theory of Light-ion Reactions*
- 11:30-12:00 Y. Oganessian (Joint Institute for Nuclear Research (JINR))  
*Superheavy Nuclei From 48Ca-induced Reactions*
- 12:00-12:30 J. Benlliure (University of Santiago de Compostela)  
*Recent Highlights on Fragmentation Reactions*

Wednesday July 7 2010

## Session 5: New Facilities and Instrumentation

**Chairs:** M. Borge (Spain)  
R. Tribble (USA)

- 08:00-08:30 S. Nagamiya (J-PARC)  
*Overview Hadron Facilities*
- 08:30-09:00 B. Fulton (University of York)  
*Present and Future RIB Facilities*
- 09:00-9:30 J. Jowett (CERN)  
*Facilities for the Energy Frontier of Nuclear Physics*
- 9:30-10:00 N. Smith (SNOLAB)  
*Developments in Underground Facilities*

## Session 6: Applications and Interdisciplinary Research

**Chairs:** B. Jonson (Sweden)  
M. Pfutzner (Poland)

- 10:00-10:30 D. Dean (DOE)  
*Energy Future and Nuclear Physics*
- 10:30-11:00 Coffee**
- 11:00-11:30 S. Kailas (Bhabha Atomic Research Centre)  
*Sub-critical Thorium Reactors Developments*
- 11:30-12:00 A. MacFarlane (UBC)  
*New Applications of Beta Detected NMR in the Study of Condensed Matter at the Nanoscale*

## Award Session

**Chairs:** D. Riska (Finland, IUPAP C-12)  
J.-M. Poutissou (Canada, IUPAP C-12)

- 12:00-12:20 Introduction & best poster and presentation award
- 12:20-12:40 1st IUPAP young scientist award
- 12:40-13:00 2nd IUPAP young scientist award
- 13:00-13:20 3rd IUPAP young scientist award



