

# WORKSHOP AGENDA

SEP. 10-12, 2014

## WEDNESDAY, SEPTEMBER 10, 2014

8:00 am to 8:15 am | Registration  
8:15 am to 8:30 am | Welcome

### EXPERIMENTS, 8:30 AM TO 10:10 AM

CHAIR: J.TAIEB

8:30 am to 9:00 am | Fission Activities at LANSCE  
*Robert C. Haight*

9:00 am to 9:30 am | Recent and Future Research Activities on Nuclear Fission at n\_TOF  
*Nicola Colonna*

9:30 am to 9:50 am | Measurement of the  $^{242}\text{Pu}(n,f)$  cross-section at the CERN n\_TOF facility  
*Andrea Tsinganis*

9:50 am to 10:10 am | Neutron-induced fission cross sections for U-233,234,236,238 up to 200 MeV  
*Fredrik Tovesson*

— BREAK, 10:10 AM TO 10:40 AM —

### THEORY, 10:40 AM TO 12:30 PM

CHAIR: T.KAWANO

10:40 am to 11:10 am | Nuclear fission as resonance-mediated conductance  
*George Bertsch*

11:10 am to 11:30 am | Self-consistent adiabatic description of the fission: automatic production of class-II PES  
*Noël Dubray*

11:30 am to 11:50 am | Microscopic Calculations of Fission Barriers in the Actinide Region  
*Meng Hock Koh*

11:50 am to 12:10 pm | Why the finite element method could be a powerful tool to model fission dynamics  
*David Regnier*

12:10 pm to 12:30 pm | Uncertainty Quantification in Nuclear Density Functional Theory for Nuclear Fission  
*Jordan McDonnell*

— LUNCH, 12:30 PM TO 2:00 PM —

CROSS SECTIONS, 2:00 PM TO 3:30 PM

CHAIR: N.COLONNA

2:00 pm to 2:30 pm	The Fission Time Projection Chamber <i>Mike Heffner</i>
2:30 pm to 2:50 pm	Measurements of high energy neutron standards at NFS, GANIL, France <i>Cecilia Gustavsson</i>
2:50 pm to 3:10 pm	Neutron-induced cross sections of actinides via the surrogate reaction method <i>Quentin Ducasse</i>
3:10 pm to 3:30 pm	Fission cross-sections evaluation based on nuclear structure models <i>Pierre Tamagno</i>

— BREAK, 3:30 PM TO 4:00 PM —

APPLICATIONS, 4:00 PM TO 5:40 PM

CHAIR: J.P.LESTONE

4:00 pm to 4:30 pm	Use of Fission Data in MCNP6 <i>Michael James</i>
4:30 pm to 5:00 pm	Rapid 3-D Gamma-Ray Response Calculations <i>Dean Mitchell</i>
5:00 pm to 5:20 pm	Correlations in Prompt Neutron and Gamma Ray Emissions from Fission <i>Sara Pozzi</i>
5:20 pm to 5:40 pm	Delayed Neutron and Gamma Measurements of Special Nuclear Materials at the Royal Military College of Canada <i>Madison Andrews</i>

— ADJOURN —

POSTER SESSION, 7:00 PM TO 9:00 PM

## THURSDAY, SEPTEMBER 11, 2014

### PROGRAMS, 9:00 AM TO 10:10 AM

CHAIR: J.C.BROWNE

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|---------------------|---|
| 9:00 am to 9:30 am  | Nuclear Fission Research at Los Alamos<br><i>Mark B. Chadwick</i>   |
| 9:30 am to 9:55 am  | Experimental Fission Research at the Gaerttner LINAC Center at Rensselaer Polytechnic Institute<br><i>Yaron Danon</i> |
| 9:55 am to 10:10 am | Prompt Fission Neutron Spectrum Measurements Using a Gamma Tagging Method<br><i>Ezekiel Blain</i>                     |

— BREAK, 10:10 AM TO 10:40 AM —

### DETECTORS / FACILITIES, 10:40 AM TO 12:30 PM

CHAIR: Y.DANON

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|----------------------|---|
| 10:40 am to 11:10 am | Current and future fission research at DANCE<br><i>Marian Jandel</i>                                    |
| 11:10 am to 11:30 am | Development of a New Tool called FALSTAFF to Study the Fission Process<br><i>Cédric Golabek</i>         |
| 11:30 am to 11:50 am | Fission activities at the ILL Lohengrin spectrometer: review and perspectives<br><i>Christophe Sage</i> |
| 11:50 am to 12:10 pm | A Neutron Source for Fission Yield studies at IGISOL-JYFLTRAP<br><i>Andrea Mattera</i>                  |
| 12:10 pm to 12:30 pm | The University of New Mexico Fission Fragment Spectrometer<br><i>Adam Hecht</i>                         |

— LUNCH, 12:30 PM TO 2:00 PM —

### NEUTRONS & GAMMAS, 2:00 PM TO 3:40 PM

CHAIR: F.GÖNNENWEIN

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|--------------------|--|
| 2:00 pm to 2:30 pm | Characteristics of prompt fission gamma-ray emission & advances in measurements, evaluations and predictions<br><i>Andreas Oberstedt</i> |
| 2:30 pm to 3:00 pm | Event-by-Event Fission Modeling<br><i>Ramona Vogt</i>  |
| 3:00 pm to 3:20 pm | Prompt gamma-ray production in neutron-induced fission of $^{239}\text{Pu}$<br><i>John Ullmann</i>                                       |
| 3:20 pm to 3:40 pm | Prompt fission neutron and gamma-ray properties in a Monte-Carlo Hauser-Feshbach framework<br><i>Ionel Stetcu</i>                        |

— BREAK, 3:40 PM TO 4:10 PM —

PROMPT & DELAYED NEUTRONS, 4:10 PM TO 5:40 PM

CHAIR: R.C.HAIGHT

4:10 pm to 4:40 pm	Beta-delayed neutron studies of fission fragments <i>Robert Grzywacz</i>
4:40 pm to 5:00 pm	Prompt Fission Neutron Studies at LANSCE <i>Hye Young Lee</i>
5:00 pm to 5:20 pm	Measurement of the prompt fission neutron energy spectrum for $^{238}\text{U}(\text{n},\text{f})$ at 1.2, 2, 5.2 and 15 MeV and for $^{235}\text{U}(\text{n},\text{f})$ at 500 keV - Preliminary results <i>Alix Sardet</i>
5:20 pm to 5:40 pm	Open questions concerning the evaluation of the $^{239}\text{Pu}$ prompt fission neutron spectra up to 30 MeV incident neutron energy <i>Denise Neudecker</i>

— ADJOURN —

CONFERENCE DINNER, 7:00 PM TO 9:00 PM

INVITED SPEAKER: JOHN C. BROWNE  
DIRECTOR EMERITUS, LOS ALAMOS NATIONAL LABORATORY

## FRIDAY, SEPTEMBER 12, 2014

### YIELDS, 8:30 AM TO 10:10 AM

CHAIR: A.TONCHEV

8:30 am to 9:00 am	Recent developments in fission product yield evaluation <i>Robert Mills</i>
9:00 am to 9:30 am	The SOFIA Experiment <i>Julien Taieb</i>
9:30 am to 9:50 am	First Results of Fission Mass Yield Measurements with SPIDER at LANSCE <i>Krista Meierbachtol</i>
9:50 am to 10:10 am	Nucleon-Induced Fission Fragment Angular Distributions and the Reaction Mechanism <i>Lou Sai Leong</i>

— BREAK, 10:10 AM TO 10:40 AM —

### YIELDS, 10:40 AM TO 12:30 PM

CHAIR: J.RANDRUP

10:40 am to 11:10 am	Fission Barriers and Fission-Fragment Yields in the region $170 < A < 330$ <i>Peter Möller</i>
11:10 am to 11:30 am	Fission yield calculations with TALYS+GEF in the fast and high energy range and comparisons to experimental data <i>Stephan Pomp</i>
11:30 am to 11:50 am	The Excitation Energy Dependence of the Total Kinetic Energy Release in $^{235}\text{U}(n,f)$ <i>Walter Loveland</i>
11:50 am to 12:10 pm	Investigation of $^{238}\text{U}$ Fission Properties at LANSCE <i>Dana Duke</i>
12:10 pm to 12:30 pm	Dynamical model for fission-fragment properties <i>Arnie Sierk</i>

— LUNCH, 12:30 PM TO 2:00 PM —

### YIELDS / SPECTROSCOPY, 2:00 PM TO 3:40 PM

CHAIR: G.SMITH

2:00 pm to 2:30 pm	Progress with STEFF and Neutron-induced Fission <i>Gavin Smith</i>
2:30 pm to 3:00 pm	Prompt X-Rays from Fast-Neutron-Induced Fission of $^{238}\text{U}$ <i>Ron Nelson</i>
3:00 pm to 3:20 pm	Fission yield measurements at IGISOL <i>Andreas Solders</i>
3:20 pm to 3:40 pm	Prompt $\gamma$ -ray spectroscopy of fission fragments <i>Nikolaos Fotiadis</i>

— END OF WORKSHOP —