

# FRONTIERS AND CAREERS IN NUCLEAR AND PARTICLE PHYSICS

UNIVERSITY OF NEW HAMPSHIRE, DURHAM, NEW HAMPSHIRE  
AUGUST 4<sup>TH</sup> – 6<sup>TH</sup>, 2016

## AGENDA OF TALKS

### THURSDAY EVENING SESSION (4:30 PM - 6:00 PM)

Welcome talk – Arun Tadepalli

Afroditi Papadopoulou – Correlated Fermi Gas Model (CFG)

Bishoy Dongwi – “Search for new Physics with experiment E-36 at J-PARC”

Kunal Chaudhary – TBD

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### DINNER AT THE CAFETERIA (6:00 PM- 7:00 PM)

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Dr. Paul Reimer – “How to write a good grant/proposal” (7:00 – 7:30 PM)

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**BREAKFAST IN THE CLASSROOM (8:00 AM- 9:00 AM)**

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**FRIDAY MORNING SESSION (9:00 AM - 10:30 AM)**

Ethan Cline – “update on the MUSE proton radius measurement”

Axel Schmidt – “The Olympus experiment”

Efrain Segarra – “The OLIVIA experiment – A “Trapless” beta decay study”

Peter Pauli – “Measurement of the Photon Flux Using a Pair Spectrometer at the Crystal Ball Experiment at MAMI “

Spieker Karsten – “Measurement of the double polarization observable G in pion photoproduction”

**COFFEE BREAK (10:30 – 11:00 AM)**

Prof. Karl Slifer – “Career and perspectives in Nuclear Physics” (11:00 – 12:00 AM)

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**LUNCH AT THE CAFETERIA (12:00 AM- 1:30 PM)**

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**SPECIAL TOURS & GROUP PHOTO (1:30 - 3:30 PM)**

**Tour 1: Space Science center**

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**Tour 2: Polarized Target Lab**

**&**

**Group Photo**

**FRIDAY AFTERNOON SESSION (3:30 - 5:00 PM)**

Juan Guerrero – “What’s strange about Kaon production at electron proton collisions”

Elena Long – “Tensor Spin Observables“

Fridah Mokaya – “Spin density matrix elements for radiative decays of the omega meson in Photoproduction at 5 GeV”

Ryan Zielinski – “the proton spin-dependent structure function,  $g_2$ , at low  $Q^2$ ”

Shujie Li – “Short range correlation in quasi-elastic electron scattering”

**COFFEE BREAK (5:00 – 5:30 PM)**

**FRIDAY EVENING SESSION (5:30 - 7:00 PM)**

James McIntyre – “Development of high resolution hodoscopes for the GlueX experiment”

Brendan Pratt – “Diamond radiators for the GlueX experiment”

Kamel Mahmoud – Radiative decay of photo-produced eta primes in the GlueX experiment”

Colin Gleason – “Determination of the Hyperon induced polarization and the polarization transfer coefficient from quasi-free hyperon production”

Kurtis Bartlett – “Qweak: first measurement of Parity violating Aluminum asymmetry”

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**DINNER (8:00 PM)**  
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**Libby’s Bar and Grill**  
47 Main St  
Durham, NH 03824  
PHONE: (603) 868 5542

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**BREAKFAST IN THE CLASSROOM (8:00 AM- 9:00 AM)**

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**SATURDAY MORNING SESSION (8:30 AM - 10:30 AM)**

**Career planning session (8:30 – 9:30 AM)**

What do I do now?

FORMAT: Q & A

**Preparing and submitting an application (9:30 – 10:30 AM)**

To do or not to do, that is the question

FORMAT: Q& A

**COFFEE BREAK (10:30 – 11:00 AM)**

**Career outside of Physics:**

Who Me? A physicist in the private sector (11:00 – 11:30 AM)

**Acing the interview (11:30 – 12:30 PM)**

How to stop worrying about the interview and start living

FORMAT: Q & A

**Career Panel members:**

Prof. Ron Gilman (Rutgers University)

Prof. Susan Gardner (University of Kentucky)

Prof. Karl Slifer (University of New Hampshire)

Dr. Paul Reimer (Argonne National Laboratory)

Dr. Brian Tice (Bloomberg L.P.)

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**LUNCH AT THE CAFETERIA (12:30 AM- 1:30 PM)**

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**Workshop Summary and conclusion talk: Marie Boer (1:30 – 2:00 PM)**

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