

Program Overview

Nuclear Astrophysics / Study of Nuclei	Neutrinos, Neutron, Symmetries	American Competitiveness
Thursday, January 18th		
6:00 PM - 8:00 PM Registration Desk Open Regency Foyer		

Nuclear Astrophysics / Study of Nuclei	Neutrinos, Neutron, Symmetries	American Competitiveness
Friday, January 19th		
Registration Desk Open 7:30 AM – 5:00 PM, Regency Foyer		
9:00 AM - 10:30 AM Joint Plenary Session Regency A		
10:30 AM - 11:00 AM Coffee Break		
11:00 AM - 12:00 PM Joint Plenary Session Regency A		
1:30 PM - 3:00 PM Plenary Session I Regency A	1:30 PM - 3:00 PM Plenary Session I Regency B	
3:00 PM - 3:30 PM Coffee Break		
3:30 PM - 5:30 PM Plenary Session II Regency A	3:30 PM - 5:50 PM Plenary Session II Regency B	
6:00 PM - 7:15 PM Discussion on Nuclear Science Education and Outreach Regency A		
7:15 PM - 8:00 PM Joint Plenary Session Regency B		
8:15 PM - 10:00 PM WG Evening Session Structure: Regency A		8:30 PM - 9:45 PM Plenary Session I Regency B

Saturday, January 20th
Registration Desk Open 8:00 AM – 5:00 PM, Regency Foyer

<p>8:30 AM - 12:00 PM Parallel WG Session I</p> <p>Theory: Buckingham Hot Matter: Columbian Structure: Regency A Astro: Water Tower</p>	<p>8:30 AM - 9:30 AM Open Microphone Session Regency B</p>	<p>8:30 AM - 10:05 AM Plenary Session II Comiskey</p>
	<p>9:45 AM - 10:45 AM Parallel WG Session I</p> <p>WG-II: San Francisco WG-IV: Toronto WG-A: Regency B WG-B: Atlanta</p>	<p>10:05 AM - 10:30 AM Coffee Break</p>
	<p>10:45 AM - 11:15 AM Coffee Break</p>	<p>10:30 AM - 11:30 AM Plenary Session III Comiskey</p>
	<p>11:15 AM - 12:15 AM Parallel WG Session II</p> <p>WG-I: Regency B WG-III: Atlanta WG-C: Toronto WG-DM: San Francisco</p>	
Lunch Break	Lunch Break	Lunch Break
<p>1:30 PM - 4:00 PM Parallel WG Session II</p> <p>Joint: Regency A Astro: Water Tower</p>	<p>1:30 PM - 3:30 PM Parallel WG Session III</p> <p>WG-II: San Francisco WG-IV: Toronto WG-A: Regency B WG-B: Atlanta</p>	<p>2:30 PM - 4:00 PM WG Session I Comiskey</p>
	<p>3:30 PM - 4:00 PM Coffee Break</p>	
<p>4:00 PM - 4:30 PM Coffee Break</p>	<p>4:00 PM - 6:00 PM Parallel WG Session IV</p>	<p>4:00 PM - 4:30 PM Coffee Break</p>
<p>4:30 PM - 7:00 PM Parallel WG Session III</p> <p>Struct & Astro: Regency A EOS: Columbian Applications: Buckingham Facilities: Water Tower</p>	<p>WG-I: Regency B WG-III: Atlanta WG-C: Toronto WG-DM: San Francisco</p>	<p>4:30 PM - 7:00 PM WG Session II Comiskey</p>
<p>8:00 PM - 10:00 PM Meeting of WG conveners & Organizers Columbian</p>	<p>8:00 PM - 10:00 PM Meeting of WG conveners & Organizers Atlanta</p>	

Sunday, January 21st
Registration Desk Open 8:30 AM – 1:00 PM, Regency Foyer

9:00 AM - 10:00 AM Plenary Session I Regency A	9:00 AM - 10:30 AM Plenary Session I & Open Microphone Session Regency B	9:00 AM - 10:30 AM WG Session III Acapulco
10:00 AM - 10:30 AM Coffee Break	10:30 AM - 11:00 AM Coffee Break	
10:30 AM - 1:00 PM Plenary Session II Regency A	11:00 AM - 1:00 PM Plenary Session II Regency B	11:00 AM - 12:30 PM Closeout Session Acapulco
		12:30 PM - 1:30 PM Organizing Committee Meeting Acapulco

Nuclear Astrophysics / Study of Nuclei

Friday, January 19th

9:00 AM - 10:30 AM Friday Morning

Joint Plenary Session with the town meeting on Neutrinos, Neutrons, Symmetries

Room: Regency A; Chair: Hamish Robertson

9:00 AM - 9:15 AM Charge and LRP process (R. Tribble)

9:15 AM - 9:30 AM Report from the workshop on education (P. McMahan-Norris)

9:30 AM - 10:00 AM Nuclear Physics (R. Casten)

10:00 AM - 10:30 AM Neutrino Physics (S. Freedman)

10:30 AM - 11:00 AM Coffee Break

11:00 AM - 12:00 PM Friday Morning

Joint Plenary Session with the town meeting on Neutrinos, Neutrons, Symmetries

Room: Regency A; Chair: Hendrik Schatz

11:00 AM - 11:30 AM Nuclear Astrophysics (J. Truran)

11:30 AM - 12:00 PM Fundamental Symmetries (M. Ramsey-Musolf)

1:30 PM - 3:00 PM Friday Afternoon

Plenary Session I - Room: Regency A; Chair: Jolie Cizewski

1:30 PM - 2:00 PM Stellar Nuclear Astrophysics (M. Wiescher)

2:00 PM - 2:30 PM Nuclear Structure I (A. Macchiavelli)

2:30 PM - 3:00 PM Theoretical Challenges in the Theory of Nuclei (W. Nazarewicz)

3:00 PM - 3:30 PM Coffee Break

3:30 PM - 5:30 PM Friday Afternoon

Plenary Session II - Room: Regency A; Chair: Alan Wuosmaa

3:30 PM - 4:00 PM Nuclear Structure Research at Jefferson Lab (K. de Jager)

4:00 PM - 4:30 PM Nuclear Structure II (Th. Glasmacher)

4:30 PM - 5:00 PM Nuclear Matter EOS in the Laboratory and in Astrophysics (J. Lattimer)

5:00 PM - 5:30 PM Nuclear physics of exploding stars (J. Blackmon)

6:00 PM - 7:15 PM Friday Evening

Discussion on Nuclear Science Education and Outreach

Room: Regency A; Chair: Sherry Yennello

7:15 PM - 8:00 PM Friday Evening

Joint Plenary Session with the town meeting on Neutrinos, Neutrons, Symmetries

Room: Regency B; Chair: Wick Haxton

7:15 PM - 7:30 PM NSAC Report on Theory (B. Mueller)

7:30 PM - 7:45 PM Status Report NSAC RIB Task Force (J. Symons)

7:45 PM - 8:00 PM Status of the DUSEL Process (J. Kotcher)

8:15 PM - 10:00 PM Friday Evening

Working Group - Nuclear structure and reactions

Room: Regency A; Conveners: L. Cardman, R. Grzywacz, M. Carpenter, A. Gade, F. Liang

Saturday, January 20th

8:30 AM - 12:00 PM Saturday Morning

Parallel Working Group Session I

Nuclear Theory

Room: Buckingham; Conveners: T. Duguet, E. Ormand, R. Wiringa

Experiments with hot nuclei, dense matter

Room: Columbian; Conveners: W. Lynch, S. Yennello, L. Sobotka

Nuclear structure and reactions (This group starts Friday evening)

Room: Regency A; Conveners: L. Cardman, R. Grzywacz, M. Carpenter, A. Gade, F. Liang

Nuclear Astrophysics

Room: Water Tower; Conveners: A. Champagne, G. Fuller, M. Wiesche

10:00 AM - 10:30 AM Coffee Break

1:30 PM - 4:00 PM Saturday Afternoon

Parallel Working Group Session II

Joint nuclear physics

Room: Regency A; Conveners: L. Cardman, R. Grzywacz, E. Ormand, R. Wiringa, S. Yennello

Nuclear Astrophysics

Room: Water Tower; Conveners: A. Champagne, G. Fuller, M. Wiescher

4:00 PM - 4:30 PM Coffee Break

4:30 PM - 7:00 PM Saturday Afternoon

Parallel Working Group Session III

Nuclear Structure and Astrophysics (Theory and Experiment)

Room: Regency A; Conveners: A. Aprahamian, D. Dean

Nuclear Matter EOS in the Lab and in Astrophysics

Room: Columbian; Conveners: J. Piekarewicz, S. Reddy, B. Tsang

Applications and Nuclear Data (Joint with American Competitive Workshop)

Room: Buckingham; Conveners: A. Hayes, E. Norman, M. Chadwick

Facilities and Instrumentation

Room: Water Tower; Conveners: J. Beene, J. Nolen, I.-Y. Lee, M. Thoennessen

8:00 PM - 10:00 PM Saturday Evening

Meeting of working group conveners

Room: Columbian

Sunday, January 21st

9:00 AM - 10:00 AM Sunday Morning

Plenary Session - Room: Regency A; Chairs: Janssens & Schatz

9:00 AM - 9:15 AM Report: Nuclear Theory WG (E. Ormand)

9:15 AM - 9:30 AM Report: Experiments with hot nuclei, dense matter WG (S. Yenello)

9:30 AM - 9:45 AM Report: Nuclear structure and reactions WG (R. Grzywacz)

9:45 AM - 10:00 AM Report: Nuclear astrophysics WG (A. Champagne)

10:00 AM - 10:30 AM Coffee Break

10:30 AM - 1:00 PM Sunday Morning

Plenary Session - Room: Regency A; Chairs: Janssens & Schatz

10:30 AM - 10:45 AM Report: Joint Nuclear Physics WG (TBD)

10:45 AM - 11:00 AM Report: Nuclear Structure & Astrophysics (Theory & Experiment) WG
(D. Dean)

11:00 AM - 11:15 AM Report: Nuclear Matter EOS in the Lab and in Astrophysics WG (J.
Piekarewicz)

11:15 AM - 11:30 AM Report: Facilities and Instrumentation WG (TBD)

11:30 AM - 1:00 PM Discussion of white paper and resolution

Neutrinos, Neutron, Fundamental Symmetries Program

Friday, January 19th

9:00 AM - 10:30 AM Friday Morning

Joint Plenary Session with the town meeting on Nuclear Astrophysics / Study of Nuclei

Room: Regency A; Chair: Hamish Robertson

9:00 AM - 9:15 AM Charge and LRP process (R. Tribble)

9:15 AM - 9:30 AM Report from the workshop on education (P. McMahan-Norris)

9:30 AM - 10:00 AM Nuclear Physics (R. Casten)

10:00 AM - 10:30 AM Neutrino Physics (S. Freedman)

10:30 AM - 11:00 AM Coffee Break

11:00 AM - 12:00 PM Friday Morning

Joint Plenary Session with the town meeting on Nuclear Astrophysics / Study of Nuclei

Room: Regency A; Chair: Hendrik Schatz

11:00 AM - 11:30 AM Nuclear Astrophysics (J. Truran)

11:30 AM - 12:00 PM Fundamental Symmetries (M. Ramsey-Musolf)

1:30 PM - 3:00 PM Friday Afternoon

Plenary Session I - Room: Regency B; Chair: Michael Ramsey-Musolf

1:30 PM - 2:00 PM Rare & forbidden Processes (P. Huffman)

2:00 PM - 2:30 PM Weak probes of Strong Interaction (B. Holstein)

2:30 PM - 3:00 PM Precision Measurements of SM properties (D. Hertzog)

3:00 PM - 3:30 PM Coffee Break

3:30 PM - 5:50 PM Friday Afternoon

Plenary Session II - Room: Regency B; Chair: Hamish Robertson

3:30 PM - 4:00 PM Theory for Neutrinos and Fundamental Symmetries (B. Balantekin)

4:00 PM - 4:30 PM Neutrino Properties (S. Elliott)

4:30 PM - 5:00 PM Solar, Reactor, Accelerator Neutrinos (J. Klein)

5:00 PM - 5:30 PM Supernovae, UHE and Neutrino Interactions (G. McLaughlin)

5:30 PM - 5:50 PM Dark Matter (A. Hime)

6:00 PM - 7:15 PM Friday Evening

Discussion on Nuclear Science Education and Outreach

Room: Regency A; Chair: Sherry Yennello

7:15 PM - 8:00 PM Friday Evening

Joint Plenary Session with the town meeting on Nuclear Astrophysics / Study of Nuclei

Room: Regency B; Chair: Wick Haxton

7:15 PM - 7:30 PM NSAC Report on Theory (B. Mueller)

7:30 PM - 7:45 PM Status Report NSAC RIB Task Force (J. Symons)

7:45 PM - 8:00 PM Status of the DUSEL Process (J. Kotcher)

Saturday, January 20th

8:30 AM - 9:30 AM Saturday Morning

Open Microphone Session

Room: Regency B; Moderator: John Wilkerson

9:45 AM - 10:45 AM Saturday Morning

Parallel Working Group Session I

Neutrino WG-II: Solar Neutrinos

Room: San Francisco; Convenors: Josh Klein, Bruce Vogelaar

Neutrino WG-IV: Supernovae, UHE, Neutrino Interactions

Room: Toronto; Convenors: John Beacom, Gail McLaughlin, Alan Poon

Symmetries WG-A: Precision Studies of Standard Model Electroweak Observables

Room: Regency B; Convenors: David Hertzog, Bill Marciano

Symmetries WG-B: Electroweak Probes of the Strong Interaction

Room: Atlanta; Convenors: Geoff Greene, Barry Holstein

10:45 AM - 11:15 AM Coffee Break

11:15 AM - 12:15 PM Saturday Morning

Parallel Working Group Session II

Neutrino WG-I: Neutrino Properties, Charge Conjugation, Lepton Flavor Violation

Room: Regency B; Convenors: Guido Drexlin, Steve Elliott

Neutrino WG-III: Reactor, Accelerator Neutrinos

Room: Atlanta; Convenors: Yuri Efremenko, Bill Louis

Symmetries WG-C: Rare and Forbidden Processes

Room: Toronto; Convenors: Paul Huffman, Allena Opper

Symmetries WG-DM: Dark Matter in Nuclear Physics

Room: San Francisco; Convener: Spencer Klein

1:30 PM - 3:30 PM Saturday Afternoon

Parallel Working Group Session III

Neutrino WG-II: Solar Neutrinos

Room: San Francisco; Convenors: Josh Klein, Bruce Vogelaar

Neutrino WG-IV: Supernovae, UHE, Neutrino Interactions

Room: Toronto; Convenors: John Beacom, Gail McLaughlin, Alan Poon

Symmetries WG-A: Precision Studies of Standard Model Electroweak Observables

Room: Regency B; Convenors: David Hertzog, Bill Marciano

Symmetries WG-B: Electroweak Probes of the Strong Interaction

Room: Atlanta; Conveners: Geoff Greene, Barry Holstein

3:30 PM - 4:00 PM Coffee Break

4:00 PM - 6:00 PM Saturday Afternoon

Parallel Working Group Session IV

Neutrino WG-I: Neutrino Properties, Charge Conjugation, Lepton Flavor Violation

Room: Regency B; Conveners: Guido Drexlin, Steve Elliott

Neutrino WG-III: Reactor, Accelerator Neutrinos

Room: Atlanta; Conveners: Yuri Efremenko, Bill Louis

Symmetries WG-C: Rare and Forbidden Processes

Room: Toronto; Conveners: Paul Huffman, Allena Opper

Symmetries WG-DM: Dark Matter in Nuclear Physics

Room: San Francisco; Convener: Spencer Klein

8:00 PM - 10:00 PM Saturday Evening

Meeting of WG convenors with Organizers

Room: Atlanta

Sunday, January 21st

9:00 AM - 10:30 AM Sunday Morning

Plenary Session I - Room: Regency B

Chair: Zheng-Tian Lu

9:00 AM - 9:20 AM Summary Report: Symmetries (Michael Ramsey-Musolf)

9:20 AM - 9:40 AM Summary Report: Neutrinos (R. G. Hamish Robertson)

9:40 AM - 10:30 AM Open Microphone Session (Moderator: TBA)

10:30 AM - 11:00 AM Coffee Break

11:00 AM - 1:00 PM Sunday Morning

Plenary Session II - Room: Regency B

Moderators: Michael Ramsey-Musolf & R. G. Hamish Robertson

11:00 AM - 1:00 PM Discussion of recommendations, white paper, writing assignments, schedule

American Competitiveness Workshop Program

Friday, January 19th

6:00 PM - 7:15 PM Friday Evening

Discussion on Nuclear Science Education and Outreach
Room: Regency A; Chair: Sherry Yenello

8:30 PM - 9:45 PM Friday Evening

Plenary Session I: Energy - Room: Regency B; Chair: Calvin Howell
8:30 PM - 8:45 PM Goals of the workshop, Ed Hartouni (LLNL)
8:45 PM - 9:15 PM Global Nuclear Energy Partnership, John Herczeg (DOE)
9:15 PM - 9:45 PM Advanced Fuel Cycle and nuclear data needs, Phillip Finck (INL)

Saturday, January 20th

8:30 AM - 10:05 AM Saturday Morning

Plenary Session II: National Security - Room: Comiskey; Chair: Ed Hartouni
8:30 AM - 9:00 AM National Nuclear Security, Mark Chadwick (LANL)
9:00 AM - 9:30 AM From building bombs to finding them Dennis McNabb (LLNL)
9:30 AM - 10:05 AM Radiation Effects Testing, Peggy McMahan Norris (LBNL)

10:05 AM - 10:30 AM Coffee Break

10:30 AM - 11:30 AM Saturday Morning

Plenary Session III: Medical Applications - Room: Comiskey; Chair: Thomas Glasmacher
10:30 AM - 11:00 AM Advances in Charged-particle Beam Therapy, Jonathan Farr (MPRI)
11:00 AM - 11:30 AM Advances in Medical Imaging Using Nuclear Physics Techniques, Stan Majewski (JLab)

2:30 PM - 4:00 PM Saturday Afternoon

Working Group Session I - Room: Comiskey; Nuclear Energy and Nuclear Data; Convener: David Robertson

4:00 PM - 4:30 PM Coffee Break

4:30 PM - 7:00 PM Saturday Afternoon

Working Group Session II - Room: Comiskey; National Security, Nuclear Medicine and Industry; Convener: Thomas Glasmacher

Sunday, January 21st

9:00 AM - 10:30 AM Sunday Morning

Working Group Session III - Room: Acapulco; Convener: TBA

10:30 AM - 11:00 AM Coffee Break

11:00 AM - 12:30 PM Sunday Morning

Closeout Session: Summary and Recommendations; Room: Acapulco; Chairs: Ed Hartouni and Calvin Howell

12:30 PM - 1:30 PM Sunday Afternoon

Organizing Committee Meeting - Room: Acapulco

Nuclear Astrophysics / Study of Nuclei

Working Group Session Programs

Friday, January 19th

8:00 PM - 10:00 PM

Working Group: Nuclear Structure and Reactions		
Time: Friday, January 19 th , 8:15 PM - 9:25 PM; Room: Regency A		
Conveners: L. Cardman, R. Grzywacz, M. Carpenter, A. Gade, F. Liang		
8:15 PM	TBA	<i>Ingo Wiedenhover</i>
8:35 PM	One-nucleon knockout reactions	<i>Terry</i>
8:40 PM	Present and future opportunities for neutron-fragment coincidence measurements at a fast fragmentation beam facility	<i>Jerry Hinnefeld</i>
8:45 PM	On the future of inelastic scattering	<i>Cottle</i>
8:50 PM	Need for comparisons between stable and unstable scattering	<i>K. Kemper</i>
8:55 PM	Nuclear structure at FSU	<i>Mark Riley</i>
9:00 PM	Short-Range Correlations	<i>John Watson</i>
9:05 PM	The DOM and its potential for nuclear structure studies	<i>Charity</i>
9:10 PM	Reaching the driplines	<i>Stolz</i>
9:15 PM	Beta-delayed neutron spectroscopy in the region near the neutron drip line	<i>D. Morrissey</i>
9:20 PM	Binding-Energy Systematics of T=0 States of Even-Even Self-Conjugate Nuclides	<i>Friedrich Everling</i>
9:25 PM	END	

Saturday, January 20th

Session I: 8:30 AM - 12:00 PM

Working Group: Nuclear Theory		
Time: Saturday, January 20th, 8:30 AM - 12:00 PM ; Room: Buckingham Conveners: T. Duguet, E. Ormand, R. Wiringa		
Invited Talks		
8:30 AM	Challenges in Nuclear Structure	<i>T. Papenbrock</i>
8:55 AM	Challenges in Nuclear Reactions	<i>I. Thompson</i>
Contributed Talks		
9:20 AM	NN and NNN interactions	<i>R. Machleidt</i>
9:25 AM	Using EFT in nuclear physics	<i>TBD</i>
9:30 AM	Renormalization Group methods	<i>S. Bogner</i>
9:35 AM	Ab initio studies of nuclei with GFMC	<i>S. Pieper</i>
9:42 AM	Ab initio studies of nuclei with the NCSM	<i>P. Navratil</i>
9:49 AM	Ab initio studies of nuclei with Coupled Clusters	<i>D. Dean</i>
9:54 AM	Electroweak currents	<i>R. Schiavilla</i>
9:59 AM	Coffee Break	
10:25 AM	Nuclear and neutron matter	<i>J. Carlson</i>
10:30 AM	Green's function approach to the nuclear many-body problem	<i>W. Dickhoff</i>
10:35 AM	The future of the nuclear shell model	<i>B.A. Brown</i>
10:40 AM	The role of the continuum in the shell model	<i>A. Volya</i>
10:45 AM	Projected Shell Model	<i>Y. Sun</i>
10:50 AM	AFMC approach to the shell model	<i>G. Stoitcheva</i>
10:55 AM	Emergent phenomena and quantum chaos	<i>S. Frauendorf</i>
11:00 AM	Universal energy density functional	<i>D. Furnstahl</i>
11:05 AM	Relativistic mean field approaches	<i>A. Afansjev</i>
11:10 AM	Microscopic theories for LACM*, including fission	<i>W. Nazarewicz</i>
11:15 AM	Symmetry-based descriptions of nuclei	<i>M. Caprio</i>
11:20 AM	Inelastic, transfer and breakup reactions	<i>F. Nunes</i>
11:25 AM	Pre-equilibrium dynamics	<i>T. Kawano</i>
11:30 AM	Populating the compound nucleus	<i>J. Escher</i>
11:35 AM	Sub-barrier reactions	<i>H. Esbensen</i>
11:40 AM	Predictive power on nuclear models and their application to high density matter in neutron stars and supernovae	<i>J. Stone</i>
11:45 AM	Use of overlap functions	<i>A. Zhanov</i>
11:50 AM	END	

Working Group: Experiments with Hot Nuclei, Dense Matter		
Time: Saturday, January 20th, 8:30 AM - 12:00 PM ; Room: Columbian Conveners: W. Lynch, S. Yennello, L. Sobotka		
8:30 AM	TBA	<i>B.A. Li</i>
9:00 AM	TBA	<i>Famiano</i>
9:10 AM	TBA	<i>Tsang</i>
9:20 AM	TBA	<i>Westfall</i>
9:30 AM	TBA	<i>Natowitz</i>
9:40 AM	TBA	<i>Sobotka</i>
9:50 AM	TBA	<i>Garg</i>
10:00 AM	Coffee Break	
10:20 AM	TBA	<i>Schroder</i>
10:30 AM	TBA	<i>Yennello</i>
10:40 AM	TBA	<i>Phair</i>
10:50 AM	TBA	<i>deSouza</i>
11:00 AM	Discussion	
12:00 PM	END	

Working Group: Nuclear Structure and Reactions		
Time: Saturday, January 20th, 8:30 AM - 12:00 PM ; Room: Regency A Conveners: L. Cardman, R. Grzywacz, M. Carpenter, A. Gade, F. Liang		
Invited		
8:30 AM	TBA	<i>Kim Lister</i>
8:50 AM	Perspectives of two-nucleon knockout reactions	<i>Bazin</i>
8:55 AM	Clarion highlights	<i>David Radford</i>
9:00 AM	Coulex with rare ISOL beams: Physics opportunities	<i>Cyrus Baktash</i>
9:05 AM	Evolution of shell structure through the static electromagnetic moments of nuclei towards extreme proton-to neutron ratios	<i>Kei Minamisono</i>
9:10 AM	g-factor measurements with Recoil in Vacuum technique	<i>Nick Stone</i>
9:15 AM	On the future of in-beam gamma-ray spectroscopy following fast fragmentation	<i>P. Fallon</i>
9:20 AM	Neutron rich with GS	<i>Joe Hamilton</i>
9:25 AM	Excursions into the continuum	<i>Torben Lauritsen</i>
9:30 AM	DIC with regards to X5	<i>Rod Clark</i>
9:35 AM	DIC and CHICO (to be confirmed)	<i>Doug Cline</i>
9:40 AM	Using DIC to Study Neutron Rich nuclei to moderate Spins	<i>Mike Carpenter</i>
9:45 AM	RDT (to be confirmed)	<i>Darek Seweryniak</i>
9:50 AM	Nuclear Structure Studies with Rare Isomers and Rare Isotopes	<i>Partha Chowdury</i>

Working Group: Nuclear Structure and Reactions		
Time: Saturday, January 20 th , 8:30 AM - 12:00 PM; Room: Regency A		
Conveners: L. Cardman, R. Grzywacz, M. Carpenter, A. Gade, F. Liang		
9:55 AM	Simplicity in Complex Systems: Many-body Symmetries, recent results and future perspectives	<i>Rick Casten</i>
10:00 AM	Future opportunities with plunger lifetime measurements	<i>P. Adrich</i>
10:05 AM	Proton and two-proton emitters	<i>K. Rykaczewski</i>
10:10 AM	Alpha spectroscopy near ¹⁰⁰ Sn	<i>Sean Liddick</i>
10:15 AM	N-rich spectroscopy with ranging out techniques	<i>Jeff Winger</i>
10:20 AM	Decay spectroscopy of fission fragments at HRIBF	<i>C. Gross</i>
10:25 AM	Future opportunities for the study of beta decay far from the valley of stability	<i>Paul Mantica</i>
10:30 AM	Studies of Gamow-Teller strength in n-rich nuclei	<i>R. Grzywacz</i>
10:35 AM	An array for comprehensive discrete spectroscopy following beta decay	<i>David Kulp</i>
10:40 AM	Nuclear-structure related mass measurements with LEBIT	<i>Michael Block</i>
10:45 AM	The emerging hypernuclear program at JLab	<i>Ed Hungerford</i>
10:50 AM	TBA	<i>Walter Loveland</i>
11:10 AM	Mechanism of In-Flight Fission of ²³⁸ U to Produce Secondary Radioactive Beams	<i>Folden</i>
11:15 AM	Fusion reaction with n-rich nuclei	<i>Felix Liang</i>
11:20 AM	Production and decay of SHE at the BGS	<i>Ken Gregorich</i>
11:25 AM	Chemistry of SHE at BGS	<i>Ken Gregorich</i>
11:30 AM	Acitinde nuclei	<i>Walter Reviol</i>
11:35 AM	Superheavy spectroscopy	<i>Teng Lek Khoo</i>
11:40 AM	(d,p) along the Z=50 and N=82 isotones	<i>Jolie Cizewski</i>
11:45 AM	Surrogate technique for measuring reaction cross sections	<i>Lee Bernstein or Rod Clark or Con Beausang</i>
11:50 AM	Charge exchange reactions	<i>Zegers</i>
11:55 AM	When nuclei become neutron rich	<i>W. Walters</i>
12:00 PM	END	

Working Group: Nuclear Astrophysics		
Time: Saturday, January 20th, 8:30 AM - 12:00 PM ; Room: Water Tower Conveners: A. Champagne, G. Fuller, M. Wiesche		
Review Talks (20+10)		
8:40 AM	Expt. nuclear astrophysics (stellar evolution)	<i>Joachim Görres</i>
9:10 AM	Theoretical explosions	<i>Tony Mezzacappa</i>
9:40 AM	Expt. nuclear astrophysics (explosions)	<i>Brad Sherrill</i>
10:10 AM	Coffe Break	
Contributed Talks (5+2)		
10:40 AM	Low Energy Accelerator	<i>Paul Vetter</i>
10:47 AM	Low Energy Measurements	<i>Claudio Ugalde</i>
10:54 AM	CTAG @ HIGS	<i>Henry Weller</i>
11:01 AM	nu SNS	<i>Uwe Greif</i>
11:08 AM	Nat'l Ignition Facility	<i>Uwe Greif</i>
11:15 AM	Indirect Techniques	<i>Akhram Zhanov</i>
11:22 AM	Indirect Measurements	<i>Wanpeng Tan</i>
11:29 AM	Fusion Measurements	<i>Cheng Lie Jiang</i>
11:40 AM	Discussion	
12:00 PM	END	

Session II: 1:30 PM - 4:00 PM

Working Group: Joint nuclear physics		
Time: Saturday, January 20th, 1:30 PM - 4:00 PM ; Room: Regency A Conveners: L. Cardman, R. Grzywacz, E. Ormand, R. Wiringa, S. Yennello		
1:30 PM	Theory Summary	<i>E. Ormand</i>
1:50 PM	Hot Nuclei Summary	<i>L. Sobotka</i>
2:10 PM	Stucture/Reactions Summary	<i>R. Grzywacz</i>
2:30 PM	RISAC Report	<i>R. Casten</i>
2:45 PM	Open Discussion	<i>D. Geesaman</i>
4:00 PM	END	

Working Group: Nuclear Astrophysics		
Time: Saturday, January 20 th , 1:30 PM - 4:00 PM; Room: Water Tower		
Conveners: A. Champagne, G. Fuller, M. Wiesche		
Contributed Talks (5+2)		
1:35 PM	TBA	<i>Carl Brune</i>
1:42 PM	Charge Exchange Reactions	<i>Remco Zegers</i>
1:49 PM	n-Capture	<i>Aaron Couture</i>
1:56 PM	rp-Process + LEBIT	<i>Stefan Schwarz</i>
2:03 PM	rp-Process and XRB	<i>Matt Anthon</i>
2:10 PM	TBA	<i>Ernst Rehm</i>
2:17 PM	Need for Theory, Complementary Approaches for RIBs	<i>Michael Smith</i>
2:30 PM	Discussion	
3:00 PM	SDSS, Metal Poor Stars	<i>Tim Beers</i>
3:07 PM	n-Rich Nuclei and Superbursts	<i>Ed Brown</i>
3:14 PM	r-Process	<i>Jorge Pereira</i>
3:21 PM	TOF Measurements	<i>Milam Matos</i>
3:28 PM	MoNA for Nuclear Astrophysics	<i>Andreas Schiller</i>
3:30 PM	Discussion	
4:00 PM	END	

Session III: 4:30 PM - 7:00 PM

Working Group: Nuclear Structure and Astrophysics (Theory and Experiment)		
Time: Saturday, January 20 th , 4:30 PM - 7:00 PM; Room: Regency A		
Conveners: A. Aprahamian, D. Dean		
Invited (25+5)		
4:30 PM	TBA	Alex Brown
Contributed (5+2)		
5:00 PM	TBA	Yang Sun
5:07 PM	TBA	Akram Zhanov
5:14 PM	TBA	Jolie Cizewski
5:21 PM	TBA	Goran Arbanas
5:28 PM	TBA	Andrew Steiner
5:35 PM	TBA	Karl Van Bibber
5:42 PM	TBA	Allan Wuosmaa
5:49 PM	TBA	Ken Nollett
5:56 PM	TBA	Jon Engel
6:03 PM	TBA	Ralph Hix
6:10 PM	TBA	Michael Smith
6:17 PM	TBA	Michael Wiescher
6:24 PM	TBA	Gail McLaughlin

Working Group: Nuclear Matter EOS in the Lab and in Astrophysics		
Time: Saturday, January 20 th , 4:30 PM - 7:00 PM; Room: Columbian		
Conveners: J. Piekarewicz, S. Reddy, B. Tsang		
Review Talks		
4:30 PM	Theoretical	<i>Madappa Prakash</i>
4:55 PM	Experimental	<i>Bill Lynch</i>
5:20 PM	Observational	<i>Robert Rutledge</i>
Contributed Talks		
5:45 PM	TBA	<i>Mark Alford</i>
5:55 PM	TBA	<i>Joe Carlson</i>
6:05 PM	TBA	<i>Andrew Steiner</i>
6:15 PM	TBA	<i>Pawel Danielewicz</i>
6:25 PM	TBA	<i>Abby Bickley</i>
6:35 PM	Discussion / Summary / Outlook	<i>Chuck Horowitz</i>
7:00 PM	END	

Working Group: Facilities and Instrumentation		
Time: Saturday, January 20 th , 4:30 PM - 7:00 PM; Room: Water Tower		
Conveners: J. Beene, J. Nolen, I.-Y. Lee, M. Thoennessen		
Invited		
4:30 PM	ANL RIA Plan	<i>D. Geesmann</i>
4:45 PM	MSU RIA Plan	<i>G. Bollen</i>
5:00 PM	RIA discussion	
Plan at Laboratories		
5:15 PM	ANL	<i>R. Janssens</i>
5:23 PM	FSU	<i>S. Tabor</i>
5:27 PM	LBNL	<i>K. Gregorich + D. Leitner</i>
5:35 PM	MSU	<i>T. Glasmacher</i>
5:43 PM	Notre Dame	<i>M. Wiescher</i>
5:48 PM	ORNL	<i>J. R. Beene</i>
5:56 PM	TAMU	<i>S. Yennello</i>
6:04 PM	TUNL	<i>C.R. Howell</i>
6:09 PM	Yale	<i>A. Heinz</i>
Equipment		
6:12 PM	GRETA	<i>I.Y. Lee</i>
6:20 PM	GRETA Auxiliary Detectors	<i>D.G. Sarantites</i>
6:25 PM	Plans of Astrophysics	<i>M. Smith</i>
6:33 PM	RF Separator	<i>I. Wiedenhoever</i>
6:37 PM	HELIOS	<i>A. Wuosmaa</i>
6:40 PM	Large Acceptance Spectrometer	<i>G. Souliotis</i>
6:43 PM	Stewardship Instrumentation	<i>S. Pain</i>
6:46 PM	END	

AGENDA (revised: 1/15/2007)

TIMES ALLOCATIONS FOR SPEAKERS:

30 minutes = 25 minutes presentation + 5 minutes discussion and speaker change

25 minutes = 20 minutes presentation + 5 minutes discussion and speaker change

20 minutes = 17 minutes presentation + 3 minutes discussion and speaker change

14 minutes = 12 minutes presentation + 2 minutes discussion and speaker change

10 minutes = 8 minutes presentation + 2 minutes discussion and speaker change

Saturday, January 20, 2007

14:00 - 18:00: **Nuclear Energy and Nuclear Data**

Conveners: David Robertson (UM-Columbia) and ?

TIME

14:00 Opening remarks by David Robertson

14:05 Lee Schroeder (LBNL)
*Opportunities for the Nuclear Science Community to
Contribute to the Nation's Energy Future*

14:35 Filip Kondev (ANL)
Measurements of beta-decay of Fission Fragments for the AFCI

14:49 Michael Dunn (ORNL)
Status of Neutron Beam Capabilities at ORELA

15:03 Mark Stoyer (LLNL)
Overview of the Nuclear Physics Program at the National Ignition Facility

15:17 Jerry Wilhelmy (LANL)
Mix Diagnostics at the NIF and Rochester

15:31 Short Presentations and Discussion

16:00 Break

16:30 Mike Herman (BNL)
Nuclear Data for Reactor Physics

16:55 Davis Kulp (Georgia Tech)
The Georgia Tech Data Search Engine

17:09 Michael Smith (ORNL)
Nuclear Data Needs for Astrophysics Studies

17:29 Short Presentations and Discussion

18:00 Session Adjourned

14:00 - 19:00: **National Security and Other Applications**
Conveners: Thomas Glasmacher (MSU/NSCL) and ?

TIME

14:00 Opening remarks by Thomas Glasmacher

14:05 Bill Hagan (DHS and SAIC)
Title ?

14:30 Chris Morris (LANL)
Proton and Muon Radiography

14:50 Harry Miley (PNNL)
Title ?

15:04 E. Frank Moore (ANL)
Title ?

15:18 Robert Ledoux (Passport Systems, Inc.)
Title ?

15:32 Naresh Menon (Physical Optics Corp.)
Building R&D Teams

15:52 Discussion

16:00 Break

16:30 Brad Sherrill (MSU/NSCL)
Nuclear Science Workforce Survey

16:40 Steve Wender (LANL)
Nuclear Applications using Neutron Beams

17:05 John Becker (LLNL)
Nuclear Science for Stockpile Stewardship

- 17:30 Dave Vieira (LANL)
Nuclear Cross Sections for National Security
- 17:44 Carl Brune (Ohio University)
Applied Nuclear Physics at Ohio University
- 18:00 Break
- 18:15 Peggy McMahan Norris (LBNL)
Cross-section Measurements using Mono-energetic Neutron Beams at LBNL
- 18:29 Rod Clark (LBNL)
Cross-section Determinations via the Surrogate Reaction Method
- 18:43 Discussion
- 19:00 Adjourn Session