GENERAL INFORMATION

The Annual Fall Meeting of the Division of Nuclear Physics of the American Physical Society will be held 23-26 October 2008 (Thursday-Sunday) at the Marriott City Center Hotel and Conference Center in Oakland, California. Three associated half-day topical workshops will be held on Thursday morning, 23 October 2008.

Please note that both the structure and format of this meeting differ from previous Fall DNP meetings. The meeting will start on Thursday, 23 October 2008, and conclude on Sunday, October 26th, at noon. In order to obtain lower room rates, the workshops will be held on Thursday morning and the plenary session for the main meeting will begin on Thursday afternoon. The parallel invited sessions, mini-symposia and contributed paper sessions will fill the schedule on Friday and continue through Sunday noon. The Lawrence Livermore National Laboratory is organizing a tour of NIF on Sunday afternoon for those who have pre-registered for it.

The meeting format is a pattern shift compared to previous DNP Fall meetings. At the Oakland meeting, we will use the ‘APS Spring meeting’ format with two sessions in the morning and two sessions in the afternoon. Each session will be two hours long and can accommodate three invited talks or up to 10 contributed talks.

The Marriott City Center Hotel is the headquarters hotel and conference center for DNP08. It is located at 1001 Broadway, Oakland, California, 94607. Telephone: 1-510-451-4000.

Further information about the conference, and an electronic copy of this Bulletin, are available on the conference web site: http://www.lbl.gov/dnp08

WORKSHOPS

The Organizing Committee has created three half day workshops. The workshops will be held on Thursday morning, October 23rd. Registration is available online or starting at 7:30 AM on the day of the meetings. The workshops will start at 8:30 AM. Attendees who have pre-registered can pick up their badges outside the meeting rooms.

Quantifying the Character of the sQGP
Session 1WA
Jewett Ballroom FGH
8:30 AM Thursday

Matter being made in central heavy ion collisions is representative of a new regime in the bulk matter of QCD. It has some remarkable properties ... including the capability of suppressing high momentum particles and collective motion indicating strong interactions between the constituents. The goal of this workshop is to challenge the speakers to quantify the characteristics of the strongly interacting matter that has been created in HI collisions. Powerful new techniques have been developed which are able to make quantitative predictions based on experimental data.

From Quarks to the Cosmos with Petaflops: Large-Scale Computing in Nuclear Physics
Session 1WB
Jewett Ballroom ABC
8:30 AM Thursday

The workshop will provide an introduction to large-scale computing and illustrate how recent developments in computational capabilities and techniques are advancing our knowledge in nuclear physics across the spectrum of interest, from quarks to cosmological scales. The program will cover topics such as "Supercomputers for Pedestrians", lattice QCD, nuclear structure and reactions, and applications to areas intersecting with nuclear physics. The future of large-scale computing in nuclear physics will be discussed.

Nuclear Physics Underground
Session 1WC
Simmons Ballroom
8:30 AM Thursday

With DUSEL on the horizon and both R&D and early implementation experiments beginning at the Sanford Lab in the coming months, this workshop is designed to give the non-expert an overview of the phys-
ics opportunities presented by working at underground laboratories. The speakers will discuss experiments underway at underground laboratories around the world, as well as the next generation experiments envisioned for the DUSEL and SNOLAB laboratories.

**PLENARY SESSION**

The Plenary Session for the DNP fall meeting will be held on Thursday, October 23rd, starting promptly at 2:30 PM.

A Broad Perspective on Nuclear Physics: Where are we now and where are we going?

Session AA

Jewett Ballroom

2:30 PM Thursday

The plenary session will highlight recent achievements in Nuclear Physics and will offer a perspective on what the future may bring for the field. There will be four talks on the major research thrusts of our field. The session will be chaired by DNP Chair Rick Casten. This session, emphasizing recent progress, especially that since the Long Range Plan exercise, should present a coherent overview of our field and everyone is encouraged to attend.

**PROGRAM DESCRIPTION**

**Invited Sessions**

The invited sessions were arranged by the DNP Program Committee, chaired by Lawrence S. Cardman. There are eight sessions in Simmons Ballroom 2-3, including one comprising speakers nominated by the DNP membership and voted on by the DNP Program Committee, and one session created by the DNP08 Organizing Committee.

Signatures for Chiral Symmetry Restoration in Nuclei
Session BA
8:30 AM Friday

Intersections of Nuclear Physics with Other Fields
Session CA
10:30 AM Friday

Nucleon Spin Structure and Its Spin-Offs
Session EA
4:00 PM Friday

Fundamental Neutron Physics
Session FA
8:30 AM Saturday

Quantum Phase Transitions in Atomic Nuclei and Other Finite Fermi Systems
Session GA
10:30 AM Saturday

Topics in Nucleon Structure
Session HA
2:00 PM Saturday

Frontiers in Rare Isotope Science
Session LA
8:30 AM Sunday

Frontiers in Nuclear Theory
Session MA
10:30 AM Sunday

**Mini-Symposia**

A number of mini-symposia have been organized by the members of the DNP Program Committee. Each mini-symposium has a lead speaker to introduce the topic, so that the contributed papers, which follow, can cover the essential material without the need for an extended introduction. The mini-symposia have attracted a large number of contributed abstracts, indicating the popularity of this session format as well as the topics covered.

3D View of the Nucleon and Its Spin I
Session BB
8:30 AM Friday
Room 208

Neutrino Properties and Nuclear Physics I
Session BC
8:30 AM Friday
Jewett Ballroom A-B

Rare Isotope Science I
Session BD
8:30 AM Friday
Jewett Ballroom G-H

3D View of the Nucleon and Its Spin II
Session CB
10:30 AM Friday
Room 208
Applications of Nuclear Physics from Earth to Outer Space  
Session CC  
10:30 AM Friday  
Jewett Ballroom A-B  
Rare Isotope Science II  
Session CD  
10:30 AM Friday  
Jewett Ballroom G-H  
Neutrino Properties and Nuclear Physics II  
Session EC  
4:00 PM Friday  
Jewett Ballroom A-B  
Rare Isotope Science III  
Session ED  
4:00 PM Friday  
Jewett Ballroom G-H  
Nuclear Physics Research and Connections to Nuclear Energy I  
Session FB  
8:30 AM Saturday  
Room 208  
Neutrino Properties and Nuclear Physics III  
Session FC  
8:30 AM Saturday  
Jewett Ballroom A-B  
Rare Isotope Science IV  
Session FD  
8:30 AM Saturday  
Jewett Ballroom G-H  
Viscosity, String Theory and Hydrodynamics  
Session FF  
8:30 AM Saturday  
Simmons Ballroom 4  
3D View of the Nucleon and Its Spin III  
Session FG  
8:30 AM Saturday  
Jewett Ballroom C  
Neutrino Properties and Nuclear Physics IV  
Session GC  
10:30 AM Saturday  
Jewett Ballroom A-B  
Cold Nuclear Matter and Low-x Physics at RHIC  
Session GD  
10:30 AM Saturday  
Jewett Ballroom G-H  
3D View of the Nucleon and Its Spin IV  
Session GG  
10:30 AM Saturday  
Jewett Ballroom C  

Nuclear Physics Research and Connections to Nuclear Energy I  
Session HB  
2:00 PM Saturday  
Room 208  
Neutrino Properties and Nuclear Physics V  
Session HC  
2:00 PM Saturday  
Jewett Ballroom A-B  
Probing the Ridge in Ultra-Relativistic Heavy Ion Collisions  
Session LD  
8:30 AM Sunday  
Jewett Ballroom G-H  

ADDITIONAL ACTIVITIES

Reception  
A welcoming reception will be held from 18:00 to 19:00 on Thursday, October 23rd, in the Atrium and Foyer of the Marriott City Center Hotel in Oakland. The reception follows the opening Plenary Session. A cash bar will be available and light refreshments will be served. Please stop by and renew acquaintances before continuing the meeting on Friday morning.  
In addition, a cash bar reception will be held in the Atrium and Foyer just prior to the banquet on Saturday evening, October 25th.

User Group Meeting and Other Satellite Meetings  
User-group meetings will take place on Friday, October 24th starting at 18:15. Details regarding precise start times and room assignments will be available at the meeting.

Physical Review C and Physical Review Letters Drop-In  
A drop-in reception to meet the editorial staff of Physical Review C and Physical Review Letters will be held on Friday, October 24th, from 14:00 to 16:00 in the Jewett Foyer and Atrium Lobby. The journal editors will be available to answer questions and share concerns. Refreshments will be served. All attendees are welcome to stop by. Please pick up an invitation at the Registration Desk.
CEU08 Student Program

A tradition of the DNP Fall Meeting is a parallel set of activities for undergraduate students organized by Warren Rogers (Westmont College) as a component of the Conference Experience for Undergraduates (CEU program). The goal of the CEU program is to provide a valuable conference experience for undergraduate students who have conducted research in nuclear physics, by providing them an opportunity to present their research to the larger professional community and to one another. Additionally, the CEU program enables participating students to talk to faculty and senior scientists from graduate institutions about graduate school opportunities. All Conference attendees are encouraged to find time to visit the undergraduate poster session that will be held on Friday afternoon at 14:00 in the Jewett Foyer and Atrium Lobby.

A CEU student social and reception is scheduled for Friday at 19:00, beside the pool. Other CEU activities, in addition to the poster session, will include special lectures on Friday afternoon at 16:00 in Simmons Ballroom 1 and on Sunday morning at 10:30 in Room 208, and the annual graduate school information session on Saturday, from 12:30 13:30, in the AJ Toppers room at the top of the hotel. Please check at the conference for updates regarding starting times and room assignments. The CEU is supported by the National Science Foundation, the Department of Energy through the national labs and the Division of Nuclear Physics.

Tour of the National Ignition Facility at LLNL

The Lawrence Livermore National Laboratory will be hosting a tour of the National Ignition Facility (NIF) on Sunday, 26 October, 2008. Buses will depart from the Marriott City Center in Oakland between 12:30 p.m. and 1:00 p.m. and return to the hotel between 5:00 p.m. and 6:00 p.m. Participants will be passing through the gates of a National Laboratory, so that only those who previously registered for the tour (before October 1st) will be allowed to take the tour.

Buses will take conference attendees to the LLNL badge office and then on to NIF for a self-guided walking tour. Please ensure that you bring the proper identification or you will not be able to attend.

The NIF site has several clothing requirements that have been implemented to protect individuals and personnel around them. The requirements include long pants that cover the ankle and shirts with sleeves. Short sleeve shirts are acceptable. Sleeveless shirts, tank tops, shorts, capri or cropped pants, skirts or dresses are not acceptable. Sturdy shoes that enclose the entire foot must be worn. Tennis shoes and loafers are acceptable. Footwear with open toes, open backs, moccasins, sandals or high heels are not acceptable.

Business and Town Hall Meetings

The DNP Business Meeting will be held in Cal Simmons Ballroom on Saturday, October 25th, at 16:15. It will include a summary of recent DNP actions, a preview of the April 2009 spring meeting in Denver, CO, and presentation of the inaugural DNP Mentoring Award.

As part of a continuing effort to provide timely information to the DNP membership and to provide an open forum for public comment on issues affecting the entire field, the Division will hold a Town Hall Meeting immediately following the Business Meeting. There will be reports from the Agencies and NSAC and a short discussion of community goals and progress.

Teachers Day

The DNP Education Committee is organizing a Teachers Day workshop which will be held on Saturday at the Lawrence Berkeley National Laboratory. The main topic of the workshop will be the Origin of the Elements, and the workshop will consist of lectures and activities that explore the boundaries between nuclear science, astrophysics and astronomy. Drop by and get some ideas for outreach to take to your local schools.

Banquet

A banquet will be held at the Marriott Hotel at 19:00 on Saturday evening in the Jewett Ballroom. Tickets are available through the conference website for an additional $55 fee. The banquet speaker will be Dr. Steven Chu, Director of the Lawrence Berkeley National Laboratory. Director Chu will discuss the world's energy problem and what we can do about it.

The banquet will be preceded by a cash bar reception. The Bar will open at 18:00.

Companions Get Together

Companions, please join us on Thursday October 23 from 3-4 PM in the AJ Toppers Room at the top of the Marriott Hotel. A representative from the Oakland Convention Services and Visitors Bureau will be there to answer your questions, show a short video, and talk to us about current attractions, events, art galleries, walking tours, and modes of transportation. The Oakland Destination Guide, as well as points of interest maps, and other informational brochures will be distributed.
Art and Lucille Poskanzer, authors of the Berkeley and Oakland Area Restaurant Guide will be there to provide dining information. If people are interested we can also organize some lunch groups, exploring the local ethnic restaurants.

Light refreshments will be served. A registration fee of $10.00 can be paid online, or at the registration desk on the day of the meeting.

REGISTRATION

Attendees are encouraged to pre-register using the registration form and instructions provided on the conference website.

On-site registration will begin Thursday morning at 7:30 and will remain open throughout the conference. Personnel will be available at the conference desk during the meeting to help provide information and other assistance.

LOCAL ORGANIZING COMMITTEE

Manuel Caldern, UC Davis
Jutta Escher, LLNL
Huan Huang, UCLA
Peggy McMahan Norris, LBNL
Richard Seto, UC Riverside
Ron Soltz, LLNL
Robert Svoboda, UC Davis
Jim Thomas, LBNL (Chair)
Ben Gibson (DNP Secretary-Treasurer, LANL) ex officio
Carol Kuc (Complete Conference Coordinators, Naperville, IL) ex officio

SESSIONS CHAIR GUIDELINES

1. Prior to departure for the meeting, check the program on the APS website to determine the number and order of the abstracts to be presented, the time allocated to each abstract, and if there are any supplementary abstracts assigned to the session you are chairing.

2. Upon arrival at the meeting, check the Corrigenda distributed with the printed Bulletin and the "program changes board" to determine if any supplementary abstracts have been assigned to the session you are chairing, or if any abstracts have been withdrawn.

3. If possible, arrive at the meeting room about 15 minutes prior to the start of the session and familiarize yourself with the controls for lights, microphones, A-V equipment and the timer. If you encounter problems, you should immediately alert the Meetings Manager (at APS Registration Desk) and/or the A-V technician.

4. At the start of the session, briefly introduce yourself and explain the timing system to the audience, and as often during the session as you think necessary.

5. Start the session on time - announce the first abstract and author, and start the timer.

6. Make sure the speaker has the microphone placed approximately 6’ below his/her chin; not too close and not too far away.

7. Please adhere to the time schedule listed in the Bulletin so that simultaneous sessions are as closely synchronized as possible. Many attendees move from session to session in order to hear specific abstracts.

8. The normal allotted time for contributed abstracts is 12 minutes (10 minutes to present; 2 minutes for Q & A). If you are chairing a session that includes both contributed and invited abstracts please be aware of the different times allocated for each and set the timer as follows:

• Contributed abstracts - set timer for 8 minutes to give initial warning, then set the final bell to go off 2 minutes later to signal the end of the talk. When this time is up, allow 2 additional minutes for questions relating to the abstract, thank the speaker and promptly introduce the next abstract and speaker.

• Invited abstracts - set timer for 25 minutes for initial warning, and the final bell to ring 5 minutes later to signal the end of the prepared talk. Then set the timer for 6 additional minutes for questions from the audience.

9. Speakers must be asked to stop when their allotted time is up in a courteous but firm manner. Keep in mind that the session must end on time, and that the last speaker has just as much right to an audience as does the first speaker. Should a speaker fail to appear, call the author of the first supplementary abstract assigned to the session, if any. If that author is not in attendance, call the author of the following supplementary abstract, and so on. If there are no supplementary abstracts assigned to your session, allow the preceding discussion to continue, or recess the session until it is time for the
next scheduled abstract. At the end of the session, call again for the regularly scheduled abstract, if time allows.

10. When two or more abstracts are submitted by a first author, only one of these will be assigned a scheduled presentation time within that session. It is assumed that the first author listed in the abstract is the person who will present the paper at the meeting. Other abstracts with the same first author may be assigned as supplementary abstracts, to be called for if time permits. If you notice that an author who has already presented an abstract rises to present another, you should request that this abstract be presented at the end of the regular program as a supplementary abstract, if time allows.

11. If any problems arise that you are unable to handle relative to successfully chairing the session, either go, or immediately send, someone to the APS registration desk to alert the Meetings Manager of the problem.

**SPEAKER GUIDELINES**

All meeting rooms will be equipped with LCD projectors and speakers are strongly encouraged to use electronic projection. You may use your laptop for driving the projector. However, in order to save setup time, it is strongly preferred that speakers combine talks onto one computer for the presentation. It is recommended that you also bring the electronic file for your presentation on a memory stick in case your computer is incompatible with the projector in the room. The recommended formats are PowerPoint or PDF. All speakers using electronic projection should plan to arrive at the meeting room at least 30 minutes prior to the start of the session to check that the technology will work with minimum delay between speakers. Overhead projectors will only be available by special request for those who must use transparencies. Please contact the local organizing committee with any questions or special requests.

**Organization**

Step back from the details of your research and think about what your audience might like to learn from your work. Keep it simple - remember, less is more.

Your talk should include:

1. Statement of hypothesis and purpose of the research
2. Description of methods of investigation
3. Inclusion of data collected and what was learned
4. Conclusions based on the data collected
5. Emphasis on significance and highlights of the research

**Audio-Visuels**

1. Supporting audio-visuals must be concise, uncluttered and readable from a distance
2. Audio-visuals should amplify your oral presentation, not duplicate it
3. Choose the medium that will optimally display your information - don't use words if a picture will convey it more clearly (graphs, tables, charts, etc.)
4. Use: line graphs to show trends; bar graphs to compare magnitudes; pie graphs to demonstrate relative portions of a whole.
5. If you require special a-v, don't wait until the last minute to request it as it may not be available. The cost of special audio-visual equipment is paid by the speaker.

**Delivery**

1. Prepare notes that highlight the salient points of your talk.
2. Practice the delivery of your talk several times prior to your presentation along with your slide or transparency sequence being sure to fit your talk into the time allocated to you.
3. Use simple sentences; avoid jargon, highly specialized vocabulary and unfamiliar abbreviations.
4. Think about questions you might be asked about your work and be prepared with well-thought out answers, being mindful of the limited time for Q and A.

**Prior to the Meeting**

Check the on-line program on the APS website prior to the meeting to see what other papers will be presented in the session to which your paper has been assigned.

**At the Meeting**

1. Check the Corrigenda and the "program changes board" to determine if there are any changes to the program that might relate to your presentation.
2. If possible, arrive at the room in which you are to give your presentation prior to the start of the session and introduce yourself to the chair.
3. Use the microphone properly. The microphone should be placed no more than 6” below your chin. (Often, reported microphone "problems" are merely a matter of having the lapel microphone placed too far from the speaker’s mouth or holding a corded microphone too close or far away.)

4. Be prepared to stop when signaled by the Chair to do so.

5. Retrieve your presentation audio-visuals at the end of your talk.