

Second Announcement

(April 22nd, 2015)



4th Heavy Ion Accelerator Symposium for Fundamental and Applied Research

International Nuclear Structure Conference in Remembrance of George Dracoulis

14th – 18th September 2015

and

Electric Monopole Transitions Workshop

11th – 12th September 2015

Canberra, Australia

The staff of the Department of Nuclear Physics at the Australian National University would like to invite you to join us in commemorating the achievements of Professor George Dracoulis in the field of Nuclear Structure, by attending the 2015 Heavy Ion Accelerator Symposium in Canberra, Australia, from September 14th to 18th.

The scientific program will concentrate on the latest research in experimental and theoretical nuclear structure physics, with some additional focus on those particular fields of gamma-ray and electron spectroscopy where George made his most significant contributions. There will be a number of invited speakers with the majority of talks taken from contributed abstracts, chosen with guidance from the International Advisory Committee. Major themes for the conference include:

- Nuclear Structure: Theory and Experiment
 - Spherical, transitional and deformed nuclei
 - Nuclear isomerism
 - Shape co-existence
- Science at the boundary of atomic and nuclear physics
 - Conversion electron spectroscopy
 - Hyperfine interactions and nuclear moments
 - Highly-charged ions
- Nuclei at extremes of angular momentum, isospin and energy
- Nuclear astrophysics

We hope that many friends and colleagues of George will be able to make the trip "down under" during the Canberra springtime for this meeting.

In addition, a satellite workshop, "Electric Monopole Transitions", will be held immediately prior to the conference on the 11th and 12th of September. The subjects of the workshop will cover areas of broad interest related to electron and pair conversion processes with special emphasis on E0 transitions, including:

- Current challenges in nuclear structure studies using electron spectroscopy
- E0 transitions as probes of nuclear structure
- Experimental challenges to observe E0 transitions
- Theory of conversion electron and electron-positron pair emission
- New experimental facilities

E0 Workshop Information

Start and finish time: The E0 Workshop is scheduled to start on Friday 11th September and conclude on Saturday 12th September.

Abstracts: There will be no formal abstracts for the E0 Workshop, however, submission of a few sentences describing potential topics of interest may be sent directly to the workshop chair at Tibor.Kibedi@anu.edu.au.

Registration: The registration fee for the E0 workshop will be AUD\$100 and will cover coffee breaks, lunch both days and a BBQ dinner on the Friday night.

Symposium Information

Start and finish time: The Symposium program will follow the workshop, with a welcome reception on the evening of Sunday 13th September and the scientific sessions commencing at 9am on Monday 14th September and finishing in the early afternoon on Friday 18th September.

Abstracts: The deadline for contributed abstracts for the HIAS conference is Friday 29th May 2015. [Abstract submission](#) can be made via the conference website. We anticipate giving notice of the abstracts selected for oral presentation by Friday June 12th.

Registration: The early bird registration deadline with a fee of AUD\$600 will be July 10th. After that date a late fee of an extra AUD\$100 will be charged up until the final registration deadline of July 31st.

The conference fee will cover all coffee breaks, lunches from Monday to Thursday, light dinners on the Sunday and Monday, the conference banquet on Tuesday and a BBQ dinner on Wednesday. A book of abstracts and refereed web proceedings will also be provided. Registration will open on June 14th 2015, with more details on the conference webpage and in future circulars.

Conference Excursion: There will be an excursion to Tidbinbilla Nature Reserve on the Wednesday afternoon as part of the conference program. This will be sponsored by the Department of Nuclear Physics.

Partner Program: Partners of attendees are invited to join us for any, or all, of the social events; prices will be indicated on the HIAS website.

Scientific Program: The program will consist of one or two invited talks to begin each session and set the session theme, with contributed presentations afterwards. The lengths of both invited and contributed talks will be set so that as many interesting talks as possible can be accommodated within the program. Posters will also be included and will be viewable at all coffee and lunch breaks, with one of the lunch breaks being specifically allocated for poster discussion. One of the sessions will have a section that will include a dedication for George and some short talks from his colleagues describing his impact on various fields.

Committee Members and Invited Speaker List: A preliminary list of invited speakers can be found on the conference website at hias.anu.edu.au/2015, while members of the local organizing and international advisory committees can be found on the [committees web page](#). Once finalized, these lists will be given in the next circular.

General Information

Proceedings: It is intended that refereed proceedings of all oral presentations from both meetings will be published through EPJ Web of Conferences; this is indexed by ISI Thomson and Scopus, in the conference proceedings category and will be accessible for free download. The deadline for submission of the proceedings will be October 31st.

Location: Both the Symposium and Workshop will be held on the campus of the Australian National University in Canberra, Australia.

Travel: Canberra airport only handles domestic flights, so for those flying to Canberra, transit through the large international airports is required, typically Sydney or Melbourne. Canberra is 3 hours by car or 4 hours by bus from Sydney. *Please note that citizens of all countries other than Australia and New Zealand are required to obtain a visa prior to travel.* Some details about travel visas are available on the [conference website](#), however complete information can be found on the [Australian government website](#).

Accommodation: Attendees should note that the conference dates coincide with the very popular Floriade display in Canberra, and alternative accommodation outside the university will require early booking. Accordingly, a block booking of accommodation for the nights of 11th – 17th September has been made for attendees at [Liversidge Court Apartments](#) and [University House](#) within the ANU campus, and at the nearby [Quest Serviced Apartments](#). The block booking consists of a mixture of twin rooms, queen suites and one and two bedroom apartments. Costs per night range between AUD\$141 per night for a one bedroom apartment (min. 7 nights) to AUD\$229 for a two bedroom "family" apartment. Breakfast packages may also be available for a small additional fee. This accommodation is limited and will be allocated in order of registration. If making a direct booking on the ANU campus or at Quest please ensure the accommodation provider is aware you are part of the HIAS 2015 block booking to receive the above-mentioned rates. Bookings must be in place 30 days in advance and cancellation fees may apply. The conference webpage provides information on other accommodation options nearby that attendees will be able to book themselves, but please note the Floriade event mentioned above.

Symposium and Workshop Webpage: The webpage for both meetings can be accessed through the Nuclear Physics Department website at physics.anu.edu.au/nuclear or directly via the HIAS website at hias.anu.edu.au/2015

Organisers: Both meetings are organized by the Department of Nuclear Physics, ANU.

Sponsors: The organisers gratefully acknowledge in-kind support from the ANU. Industry sponsorship and attendance is welcome. We offer the opportunity to provide information sheets that will be included in the book of abstracts, and to set up an information stand at the location for the coffee breaks and lunches.

For further details, please contact us at:

hias@physics.anu.edu.au