

**Joint ICTP-IAEA School and Workshops 2018-2019**

(due to COVID there were no Workshops in 2020)

EVT1701973	Scientific and Technical Events	Training Activities	16-04-2018	20-04-2018	Italy	Trieste	Joint ICTP-IAEA School and Workshop on Fundamental Methods for Atomic, Molecular and Materials Properties in Plasma Environments	<b>Hill, Christian</b> (TRAC18002477)	<p>Christian represented the IAEA at this event, which was organised by my predecessors, Bas Braams and Hyun-Kyung Chung. In addition to being a point of contact for the attendees and directors, he gave an invited presentation "Managing large atomic and molecular data sets: HITRAN, ExoMol and CascadesDB", and met with experts in Atomic and Molecular Data to plan future Workshops and Schools at the ICTP for 2019 (proposal submitted) and 2020.</p> <p>Some 60 students (Graduate students, postdocs, and early-career scientists), many from developing Member State countries attended the Workshop, and presented posters or contributed oral presentations. The event was judged as successful and presented many opportunities for knowledge-exchange and networking between scientists at different institutes.</p> <p>He also took the opportunity to promote the IAEA's crowdsourcing challenge on radiation damage modelling in materials for fusion reactors directly to participants with research backgrounds in relevant areas.</p> <p>The presentations and abstracts are available at the AMD Unit's website at <a href="https://www.amdis.iaea.org/Workshops/ICTP2018/">https://www.amdis.iaea.org/Workshops/ICTP2018/</a>.</p> <p>In conclusion: This Workshop was widely held by the attendees and organisers to be very successful, if diverse in scope, and it was considered appropriate that a similar event be held in 2019 as a School, focussed more on training and teaching and in the area of Atomic Spectroscopy for plasma processes</p> <p>The large Budinich Lecture Hall, in the ICTP's Leonardo da Vinci building, was a pleasant venue for the number of participants.</p>
EVT1703650	Scientific and Technical Events	Training Activities	15-10-2018	26-10-2018	Italy	Trieste	Joint ICTP-IAEA Workshop on Nuclear Structure and Decay Data: Theory, Experiment and Evaluation	<b>Dimitriou, Paraskevi</b> (TRAC18020317) (15-26 Oct 2018)	<p><b>Vivian:</b></p> <p>Vivian's work was to be involved selecting co-director (E.A. McCutchan, Brookhaven National Laboratory) and lecturers, making all the arrangements with the lecturers, and evaluating and selecting the participants. She worked very closely with the ICTP secretary, keeping abreast of all the organizational matters and management of the budget, and taking care of all foreseen and unforeseen issues such as financial claims, changes of lecture halls, and last minute adjustments of the program to meet the participants demands.</p> <p>Due to the limited funds allocated initially to this two-week workshop (20000 Euro), Vivian made special arrangements with the approval of my Section (NDS) Head and Director (NAPC) to provide additional funding of the order of 10000 Euros to cover the costs of lecturers and participants for two-weeks. This additional aid was vital for the successful organization of the workshop.</p> <p>Ten lecturers from 7 countries were invited to lecture during the two weeks, and 20 participants from 13 countries were selected to participate. Due to two last minute cancellations, we ended having 18 participants from 11 countries. Out of these 18, 4 participants came from developed countries and were self-funded.</p> <p>The scientific program was formed in cooperation with the co-director Elisabeth McCutchan.</p> <p>In addition to overseeing the smooth running of the workshop, Vivian also gave two presentations: one on the nuclear data activities of the Nuclear Data Section and the content and objective of the workshop, and a second one on the evaluation of nuclear reactions. She was constantly interacting with the trainees and the lecturers, and actively contributed to the supervision of the practical courses, answering questions and assisting the trainees in the exercises.</p> <p><b>Conclusions:</b> The workshop was very successful. Participants worked diligently throughout the two weeks and produced some impressive results:</p>



								<p><b>Viktor Zerkin</b> (TRAC18020376) (21-24 Oct)</p>	<p><b>Viktor:</b> delivered two lectures and practical exercise:</p> <ul style="list-style-type: none"> <li>• MyENSDF Web Tools (60 min)</li> <li>• IAEA-NDS Nuclear Reaction Databases and Services (45 min)</li> <li>• advanced features and online work with EXFOR-ENDF-IBANDL-ZVView, and MyEnsdf Web system (60 min)</li> </ul> <p>He participated in other practical exercises and informal discussions about usage of MyEnsdf tools and Ensdf programs via Internet, features, current options and further development of Web based Ensdf editor and viewers, also answering questions and providing practical help in usage of EXFOR Web retrieval system. The greatest interest on practical session was attracted by advanced operations with data: renormalization of old data, inverse reaction calculations, work with own data on our Web systems.</p> <p><b>Conclusions:</b> Viktor's contribution to the school was useful for participants and also for him because he received feedbacks from the participants and lecturers during practical exercises and discussions.</p> <p><b>Viktor interacted with:</b> Singh Balraj (McMaster University, Canada), Shamsu Basunia (Lawrence Berkeley National Laboratory), Elizabeth McCutchan (Brookhaven National Laboratory), Kasperovych Dmytro (Kiev Institute for Nuclear Research), Chekhovska Anastasiia (Kharkov Institute of Physics and Technology), Caballero Folch Roger (TRIUMF, Canada)</p>
EVT1804932	Scientific and Technical Events	Training Activities	6-5-2019	10-5-2019	Italy	Trieste	Joint ICTP-IAEA School on Atomic and Molecular Spectroscopy in Plasmas	<p><b>Christian</b> (TRAC19001976)</p>	<p><b>Christian:</b> Participation as Course Director and Lecturer in the joint ICTP-IAEA School on Atomic and Molecular Spectroscopy in Plasmas, 6 - 10 May 2019.</p> <p>This School was attended by 44 participants from 20 IAEA Member States, with many of the participants from developing countries received funding for their travel and accommodation from the event budget. The majority of those attending were early-stage career scientist (graduate students and post-docs).</p> <p>The purpose of the School is to provide training and information exchange for plasma physicists, plasma spectroscopists, and other users of atomic and molecular data for fusion and plasma applications to expand their knowledge of plasma spectroscopy and associated atomic and molecular sciences. It also provides a forum for networking amongst and between the students and lecturers.</p> <p>Christian worked with the other directors, including the local organizers, to coordinate the event, manage and introduce lecture sessions, maintain the event website, obtain feedback through an anonymous online questionnaire, and provide administrative information to the participants.</p> <p>He gave three lectures on molecular spectroscopy and chaired the question-and-answer session.</p> <p><b>Conclusions:</b> Based on the feedback received from participants in the School and talking to the lecturers, this School was very successful. Participants rated the school an average of 8.52 / 10 with 22 out of 27 rating it "Good" or "Fantastic" in our questionnaire. The vast majority of the students attended over 80% of the lectures and the majority verdict on all lecture courses asked about was in the categories "Very useful" and "Difficulty: Just right".</p> <p>The Leonardo Lecture Theatre that we would have preferred for this event was not available as it is currently undergoing refurbishment; the Euler Room that we used instead functioned well, but came in for some criticism for being too small and airless. We were lucky that another lecture room was free for the computing practical sessions which require more space.</p> <p>The students returned to their home institutes with a better knowledge of plasma spectroscopy and its applications, and provided feedback that they would recommend the School in future.</p>

