TAN 19 - Program

Last update: 16 September 2019

Sunday, 25 August 2019	
14:00	**Registration**

Time	Title & Speaker	
18:00	Opening of TAN 19	15’
18:15	Address by the president of IUPAC **Qi-Feng Zhou,** Peking University	15’
18:30	Address by the president designate of IUPAP **Michel Spiro,** IUPAP	15’
18:45	Paneth and Elements: Insights and Misunderstandings * **Klaus Ruthenberg,** Coburg University of Applied Sciences **(ID 101)**	40+5’
19:30	**Welcome reception** End: 22:00	

TAN 19 - Program

Monday, 26 August 2019		
Time	Title & Speaker	
	Chair: Yuri Oganessian	
09:00	Address by the president of GDCh **Matthias Urmann,** Sanofi-Aventis Deutschland GmbH	15’
09:15	Address by the president of DPG **Dieter Meschede,** Universität Bonn	15’
09:30	Research on Superheavy Nuclei at the Velocity Separator SHIP * **Gottfried Münzenberg,** GSI Helmholtzzentrum für Schwerionenforschung **(ID 66)**	40+5’
10:15	Noli turbare circulos meos: Julius Lothar Meyer (1830-1895), Dmitri Ivanovič Mendeleev (1834-1907) and the Periodic System of Elements * **Gisela Boeck,** University of Rostock **(ID 38)**	40+5’
11:00	**Coffee Break**	
	Chair: Gottfried Münzenberg	
11:30	*IUPAC Liaison** **IUPAC Representative**	15’
11:45	The discovery of element 113 * **Kouji Morimoto,** RIKEN Nishina Center for Accelerator-Based Science **(ID 91)**	40+5’
12:30	Accommodating the Rare Earths in the Periodic Table: A Puzzling History * **Pieter Thyssen,** KU Leuven **(ID 116)**	40+5’
13:15	**Lunch break**	
	Chair: Yuichiro Nagame	
15:15	The heaviest nuclei and elements * **Yuri Oganessian,** Flerov Laboratory of Nuclear Reactions, JINR **(ID 118)**	40+5’
16:00	The Cosmos in the Lab: Perspetives at GSI and FAIR* **Paolo Giubellino,** GSI Helmholtzzentrum für Schwerionenforschung **(ID 117)**	20+5’
16:25	**Coffee Break**	
	Chair: Witold Nazarewicz	
16:55	Getting to know the GDCh: Competence, Contacts, Cooperation **Maximilian Bräutigam**, GDCh	15’
17:10	Element Genesis over 13.8 billion Universal years * **Hideto En'yo,** RIKEN Nishina Center **(ID 52)**	20+5’
17:35	Status of the FLNR SHE-Factory * **Sergey Dmitriev,** Flerov Laboratory of Nuclear Reactions, JINR **(ID 100)**	20+5’
18:00	**Conference Photo**	
19:00	**Dinner**	

* Invited talk for the symposium

TAN 19 - Program

Tuesday, 27 August 2019		
Time	Title & Speaker	
	Chair: Roderick Clark	
8:45	Laser spectroscopic investigation of the heaviest elements ** **Sebastian Raeder,** GSI Helmholtzzentrum für Schwerionenforschung **(ID 105)**	35+5’
9:25	SHE-Mass-II setup for direct mass measurement of hot-fusion superheavy nuclides ** **Michiharu Wada,** WNSC, IPNS, KEK **(ID 90)**	20+5’
9:50	Direct mass measurements of mendelevium isotopes in the vicinity of the N=152 deformed shell-closure **Yuta Ito,** JAEA **(ID 107)**	15+5’
10:10	Direct mass measurement of low-lying isomers in the heaviest elements with SHIPTRAP **Francesca Giacoppo,** GSI Helmholtzzentrum für Schwerionenforschung**,** HIM Mainz **(ID 23)**	15+5’
10:30	**Coffee Break**	
	Chair: Valeria Pershina	
11:00	Periodic Trends in Superheavy Elements ** **Peter Schwerdtfeger,** Massey University, Auckland **(ID 48)**	35+5’
11:40	Electronic Structure Theory for the whole Periodic Table of the Elements **Stefan Knecht,** ETH Zürich **(ID 72)**	15+5’
12:00	**Lunch break**	
13:00	Bus transfer to Port Nassau	
13:30	Boat trip to Jadebusen from Port Nassau	
16:00	Bus transfer to Atlantic Hotel	
	Chair: Rolf-Dietmar Herzberg	
17:00	Recent developments in the theoretical description of the heaviest elements including cluster decays ** **Michał Warda,** Maria Curie-Skłodowska University, Lublin **(ID 121)**	20+5’
17:25	Decay studies of heaviest nuclei: new reach with digital electronics ** **Khuyagbaatar Jadambaa,** GSI Helmholtzzentrum für Schwerionenforschung **(ID 96)**	20+5’
17:50	Alpha Decay and Fission of Isomers **Roderick Clark,** LBNL **(ID 46)**	15+5’
18:10	Excited states in very heavy elements **Thomas Goigoux,** CEA/Saclay **(ID 7)**	15+5’
18:30	Decay properties of ^{255}Rf and ^{251}No **Rikel Chakma,** Université Paris Sud **(ID 68)**	15+5’
19:00	**Dinner**	
20:00	**Postersession (End: 21:30)**	

** Invited talk

TAN 19 - Program

Wednesday, 28 August 2019		
Time	Title & Speaker	
	Chair: Peter Schwerdtfeger	
09:00	Structure of superheavy nuclei ** **Witold Nazarewicz,** Michigan State University **(ID 42)**	35+5’
09:40	Heaviest nuclei in covariant density functional theory ** **Anatoli Afanasjev,** Mississippi State University **(ID 70)**	20+5’
10:05	Hindered decays of heaviest high-K isomers **Piotr Jachimowicz,** University of Zielona Góra **(ID 51)**	15+5’
10:25	Exploration of Nuclear Structure and Decay Properties Neutron Deficient Dubnium, Rutherfordium and Lawrencium Isotopes **Fritz Peter Heßberger,** GSI Helmholtzzentrum für Schwerionenforschung **(ID 32)**	15+5’
10:45	**Coffee Break**	
	Chair: Mikhail Itkis	
11:15	Recent developments in quasifission ** **David J. Hinde,** Australian National University, Canberra **(ID 71)**	35+5’
11:55	Priority experiments at the SHE Factory ** **Vladimir Utyonkov,** Joint Institute for Nuclear Reactions, Dubna **(ID 19)**	20+5’
12:20	Fusion Dynamics for Hot Fusion Reactions revealed in Quasielastic Barrier Distributions **Taiki Tanaka,** The Australian National University **(ID 86)**	15+5’
12:40	**Lunch break**	
	Chair: Ephraim Eliav	
14:30	Accurate isotope-shift computations for heavy open-shell elements ** **Stephan Fritzsche,** Helmholtz Institute Jena **(ID 9)**	35+5’
15:10	Relativistic couple cluster investigations of atomic properties of the heaviest elements ** **Anastasia Borschevsky,** University of Groningen **(ID 115)**	20+5’
15:35	High-precision calculations of ionization potentials, spectra, electromagnetic transition amplitudes and isotope shifts in No, Db, Sg, Bh, Hs, Mt and Og atoms **Bryce Lackenby,** University of New South Wales **(ID 30)**	15+5’
15:55	Calculation of isotope shifts in superheavy elements and search for nuclear island of stability **Anna Viatkina,** Johannes Gutenberg-Universität, Mainz **(ID 31)**	15+5’
16:15	Atomic and Chemical Properties of Lawrencium (Lr, Z = 103) and an Outlook to the Transactinides **Tetsuya K. Sato,** JAEA, Ibaraki University **(ID 94)**	15+5’
16:35	**Coffee Break**	
	Chair: Anatoli Afanasjev	
17:05	Super heavy nuclei studied using heavy actinide targets and fast digital detection systems ** **Julie G. Ezold,** Oak Ridge National Laboratory **(ID 114)**	20+5’
17:30	Superheavy Studies at GANIL-SPIRAL2 **Julien Piot,** CNRS/GANIL **(ID 88)**	15+5’
17:50	The Status of SHANS **Zaiguo Gan,** Institute of Modern Physics, Chinese Academy of Sciences **(ID 76)**	15+5’
18:10	The recent history and near future for fast digital detection systems in super-heavy element research **Nathan T. Brewer,** ORNL, University of Tennessee Knoxville **(ID 123)**	15+5’
19:00	**Dinner**	

** Invited talk

TAN 19 - Program

Thursday, 29 August 2019		
Time	Title & Speaker	
	Chair: Qin Zhi	
08:45	Chemical studies of superheavy elements at a recoil separator, with a focus on Fl ****** **Alexander Yakushev,** GSI Helmholtzzentrum für Schwerionenforschung **(ID 39)**	35+5’
09:25	Online studies with thallium and the prospects for a future chemistry experiment with nihonium ** **Patrick Steinegger,** Flerov Laboratory of Nuclear Reactions, JINR **(ID 77)**	20+5’
09:50	Establishment of the volatility trend in Group-5 Elements via gas-chromatographic experiments with Nb-, Ta-, and Db-oxychlorides **Nadine M. Chiera,** Paul Scherrer Institute **(ID 15)**	15+5’
10:10	Electronic structure, bonding and volatility of carbonyl compounds of Tc, Re, and Bh ****** **Miroslav Ilias,** Matej Bel Univ., Banská Bystrica; GSI, Darmstadt **(ID 45)**	20+5’
10:35	**Coffee Break**	
	Chair: Sergey Dmitriev	
11:00	Experimental programs using ^{254}Es at the JAEA tandem facility ** **Katsuhisa Nishio,** Advanced Science Research Center, JAEA **(ID 119)**	35+5’
12:05	**Lunch box pick-up**	
12:30	Bus transfer to Bremen	
14:00	Free time in Bremen	60’
15:00	**City tour Bremen**	60’
16:00	Free time in Bremen	60’
17:00	**Organ concert Bremen cathedral**	60’
18:30	**Conference Dinner at Restaurant Canova/Bremen**	
21:30	Transfer to Bus	
22:00	Bus departure to Wilhelmshaven	

** Invited talk

TAN 19 - Program

Friday, 30 August 2019		
Time	Title & Speaker	
	Chair: Mark A. Stoyer	
09:00	Nuclear Spectroscopy of Superheavy Nuclei ** **Dirk Rudolph,** Lund University **(ID 99)**	35+5’
09:40	The status of mass identification of superheavy elements with FIONA ** **Jennifer Pore,** Lawrence Berkeley National Laboratory **(ID 111)**	20+5’
10:05	Nuclear Spectroscopy along ^{287,289}Fl decay chains **Anton Såmark-Roth,** Lund University **(ID 59)**	15+5’
10:25	Spontaneous fission studies for neutron-rich Fm and Lr isotopes **Masato Asai,** Advanced Science Research Center, JAEA **(ID 98)**	15+5’
10:45	**Coffee Break**	
	Chair: Andreas Türler	
11:15	The complicated, challenging configuration structure of the 5g elements **Kenneth Dyall,** Schrodinger, Inc **(ID 22)**	15+5’
11:35	Optimization of Transactinide Carbonyl Complex Formation and Transport using Fission Products from Cf-252 **Yves Wittwer,** Paul Scherrer Institute **(ID 43)**	15+5’
11:55	Schiff Base Coordination Chemistry with Tetravalent Cations **Bonnie Klamm,** Florida State University **(ID 89)**	15+5’
12:15	The species identification of Mo, W, and Re carbonyl complexes with laser-ablation time-of-flight mass-spectrometry **Yang Wang,** RIKEN Nishina Center for Accelerator-Based Science **(ID 74)**	15+5’
12:35	Actinide-Targets produced with a Drop-on-Demand printing system **Dennis Renisch,** JGU Mainz / HIM **(ID 29)**	15+5’
12:55	**Closing**	20’
13:15	**Lunch**	
14:00	**Departure**	

** Invited talk