

TAN 19 - Program

Last update: 20 August 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	

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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	<i>IUPAC Liaison</i> * 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: Perspectives 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 mendeleevium 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)	

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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	Superheavy Studies at GANIL-SPIRAL2 Julien Piot , CNRS/GANIL (ID 88)	15+5'
17:25	The Status of SHANS Zaiguo Gan , Institute of Modern Physics, Chinese Academy of Sciences (ID 76)	15+5'
17:45	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	

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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'
11:40	Super heavy nuclei studied using heavy actinide targets and fast digital detection systems ** Julie G. Ezold , Oak Ridge National Laboratory (ID 114)	20+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	

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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 Sămark-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 Dyll , 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	

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