## SCIENTIFIC PROGRAM LIST OF CONTRIBUTIONS TAN99

First Author / Presenting Author	Title of abstract	ID *
Abe, Yasuhisa	Reaction Theories for Synthesis of Superheavy Elements	O-28
Adamian, Gurgen G.	Effect of Structural Forbiddenness in Fusion of Heavy Nuclei	P-W-38
Antonenko, Nikolai	Fusion of Heavy Nuclei within Dinuclear System Concept	O-29
Aritomo, Yoshihiro	Fusion-Fission Dynamics for Synthesis of Superheavy Elements	O-31
Armbruster, Peter	Reminiscences from (1971-88)-Experiments	O-2
Backe, Hartmut / Sewtz, Michael	Status Report on Laser Spectroscopy at Trans-Einsteinium Elements	P-M-3
Bender, Michael / Maruhn, Joachim	Superheavy Nuclei in the Relativistc Mean-Field Theory	O-35
Benoit, Bénédicte J.N.	Entrance Channel Effects on the Dynamics of Fusion-Fission Reactions Leading to Z=110	P-W-31
Berger, Jean-Francois	Nuclear Structure in the Heaviest Elements	O-18
Bilewicz, Alexander	The Ionic Radii of Rf <sup>4+</sup> and Db <sup>5+</sup>	P-W-22
Brüchle, Willy	Aqueous Chemistry with Seaborgium (Element 106)	P-W-26
Brüchle, Willy / Kratz, Jens-Volker	Chromatographic Studies of Rf (Element 104) with Tributylphosphate (TBP)	P-W-23
Cherepanov, Evgeni	Production Cross Sections of Superheavy Elements for Cold and Hot Fusion Reactions	O-30
Denisov, Vitali Y.	Formation of Superheavy Elements in "Cold" Fusion Reactions	P-W-37
Dressler, Rugard	The Method of Total Ignorance (MOTI): an Approach to Estimate Chemical and Physical Quantities in Experiments with Low Event Rate	P-M-9
Düllmann, Christoph E.	Thermochromatographic Investigation of Ruthenium with Oxygen as Carrier-Gas	P-M-13
Eberhardt, Klaus	Application of the Fast Centrifuge System SISAK-3 for Chemical Studies on Rutherfordium	P-M-29
Eichler, Bernd	Entropies of Transactinides	P-W-12
Eichler, Robert	Gas Phase Chemistry of the Group 7 Homologues of Bohrium (Element 107)	O-17
Eliav, Ephraim	High-Accuracy Calculations for Heavy and Superheavy Elements	P-W-14
Fritzsche, Stephan / Fricke, Burkhard	The Low-Lying Excitation Spectrum of Atomic Fermium	P-W-2
Gäggeler, Heinz W. / Dressler, Rugard	Production of Neutron Rich Isotopes in xn- and $\alpha$ xn-Reactions	O-34
Giardina, Giorgio / Nasirov, Avazbek K.	The Dynamical Effect of the Entrance Channel on the Evaporation Residue Production of Superheavy Elements	P-W-35
Gregorich, Kenneth E.	Putting Transactinides in the Periodic Table: Aqueous Chemistry of the New d Elements	O-10
Groß, Martin	The Role of the Munich Accelerator for Fission Fragments (MAFF) in the Production of Very Heavy Elements	P-M-1

First Author / Presenting Author	Title of abstract	ID *
Gupta, Raj K.	Cold Synthesis of Superheavy Elements Using <sup>208</sup> Pb, <sup>48</sup> Ca and Other Lighter Beams	O-32
Hartmann, Willy / Kindler, Birgit	Perspectives in the Target Development for the Synthesis of Heavy Elements	P-M-34
Herrmann, Günter	The Superheavy-Element Rush – Reminscences of a Participant	0-1
Heßberger, Fritz P.	Nuclear Structure Investigations of Neutron Deficient Nuclei in the Region Z = 103 to 105	P-W-6
Hirata, Masaru	Electronic Structure of Tetravalent Zr, Hf and Rf Nitrates	O-24
Hofmann, Sigurd	Status and Perspectives of Superheavy-Element Research	O-3
Hübener, Siegfried	Physico-Chemical Characterization of Seaborgium as Oxide Hydroxide	O-16
Johansson, Marcus J.	A SISAK Separation System for Chemical Studies of Seaborgium, Element 106	P-M-27
Jost, Dieter T.	SINQ-Gas-Jet, Miss Piggy and Kermit: Facilities to Produce Tracers for Model-Experiments in Transactinide Chemistry	P-M-7
Kaldor, Uzi	Theoretical Prediction of Properties of Heavy and Superheavy Atoms	O-21
Kratz, Jens-Volker	Transactinide Chemistry	O-9
Kronenberg, Andreas	Continuous on-line Chromatography of Short-Lived Hf and W Isotopes with the Multi-Column Technique	P-M-21
Langrock, Ernst-Jürgen	Possibilities for Separation of Element 114 <sup>2+</sup> by use of 18-Crown-6-Compounds	P-M-25
Leino, Matti	Investigations of Nuclear Structure in the Heaviest Elements	O-19
Le Naour, Claire	Production of <sup>262</sup> Db in the Reaction <sup>248</sup> Cm( <sup>19</sup> F, 5n) and Isolation of More than 60 Atoms in Dilute HF Medium	O-12
Mitsuoka, Shin-ichi	Fusion of Deformed Nuclei in the Vicinity of the Coulomb Barriers	O-33
Mouze, Geneviève	Why Does <sup>270</sup> Sg Fission Symmetrically ?	O-37
Mueller, Alex C.	Perspectives of Intense Neutron-Rich Exotic Beams for Heavy Element Research	O-38
Nagame, Yuichiro	Fission Characteristics of Very Heavy Nuclides	O-27
Nasirov, Avazbek K.	Effect of Shell Structure on the Formation of Reaction Products	P-W-36
Ninov, Victor	Experimental Work at the Berkeley Gas-Filled Separator	O-6
Oganessian, Yuri Ts. / Wild, John	The Synthesis of Superheavy Nuclei in the <sup>48</sup> Ca + <sup>244</sup> Pu Reaction	O-5
Oganessian, Yuri Ts. / Yeremin, Alexander	Synthesis of Superheavy Elements with <sup>48</sup> Ca and Lighter Ion Beams	O-4
Omtvedt, Jon Petter	On-line Energy Calibration for the SISAK Liquid Scintillation Detector System	P-M-30
Omtvedt, Jon Petter	A SISAK Three-Stage Separation System for Chemical Studies of Bh, Element 107	P-M-28
Patra, S.K.	Structure of Superheavy Nuclei for Z=114 and Beyond	P-W-10
Patyk, Zygmunt	Properties of Superheavy Nuclei Calculated within Macroscopic-Microscopic Approach	O-36
Paulus, Wolfgang / Strub, Erik	Extraction of the Fluoride-, Chloride- and Bromide Complexes of the Elements Nb, Ta, Pa and 105 into	P-W-24

First Author / Presenting Author	Title of abstract	ID *
	Aliphatic Amines	
Pershina, Valeria	Relativistic Quantum Chemistry: Progress in Transactinide Research	O-22
Popeko, Andrew G.	Synthesis of Superheavy Elements beyond 1 pb	P-M-32
Pyykkö, Pekka	Relativistic Effects in Heavy-Element Chemistry	O-8
Quint, Wolfgang	The SHIPTRAP Project - A Capture and Storage Facility at GSI for Heavy Radionuclides from SHIP	O-13
Reiter, Peter	Structure, Limits of Stability, Fission Barrier and Formation Mechanism of the Z=102 Isotope <sup>254</sup> No	O-20
Rieth, Ulrich	Reactions of Osmium Ions with Oxygen in a Penning Trap	P-M-5
Sakama, Minoru	Decay Properties of Neutron-Deficient Actinide Isotopes	P-W-4
Schmidt, Karl-Heinz	New Results on the Role of Shell Effects in Nuclear Fission from Experiments with Secondary Beams	O-26
Schumann, Dorothea / Dressler, Rugard	Precipitation on Nucleopore Filters (PROFI): A Method for Fast Preparation of $\alpha$ -Samples in $4\pi$ -Geometry from Aqueous Solution	P-M-19
Seth, Michael	High Level Quantum Chemical Calculations of the Properties of Elements 111 to 114	O-23
Smolanczuk, Robert	Production and Decay Properties of Superheavy Nuclei	0-7
Strub, Erik	Fluoride Complexation of Rutherfordium (Rf, Element 104)	0-11
Taut, Steffen	CORA - A New Control Program for the ROMA Detection System	P-M-11
Thirolf, Peter G.	Spectroscopy of Super- and Hyperdeformed States in Actinide Nuclei	P-W-8
Tilson, Jeffrey / Seth, Michael	Spin-Orbit CI Calculations with Millions of Determinants	P-W-16
Trubert, Didier	Behaviour of Rf and its Homologues in HF-HCl Media	P-W-20
Türler, Andreas	Gas Phase Chemistry of the Transactinide Elements	O-14
Varga, Sven	Relativistic Potential Energy Surfaces for Transactinides	P-W-18
von Zweidorf, André	The Synthesis of VolatileTetroxides of Osmium and Ruthenium	P-M-15
Wada, Takahiro	Favorable Incident Channels for Synthesis of Superheavy Elements with Three-Dimensional Fluctuation-Dissipation Dynamics	P-W-33
Yakushev, Alexander B.	On-line Experiments with Short-Lived Osmium Isotopes as a Test of the Chemical Identification of the Element 108 – Hassium	P-M-17
Zhuikov, Boris L.	An Approach for Gas Chemistry of New Elements (IV Group as Example)	O-25
Zvara, Ivo	Interpretation of Gas Phase Chemistry Experiments with Transactinoids: Element 106, Heterogeneous Column Surface	O-15

**★** O = oral P = Poster W = Wednesday