

9th International Workshop on Spinel Nitrides and Related Materials

Time	Name			Title of the talk
Monday 3th - Morning				
Modeling of New Phases – Theoretical Predictions of Structure & Properties I				
09:15 - 09:30	Ralf	Riedel	DE	Opening
09:30 - 10:00	Isao	Tanaka	JP	Data Driven Discovery of Novel Materials.
10:00 - 10:30	Peter	Kroll	USA	High-Pressure Nitrides: (some) Old and New Results and Insights.
10:30 - 11:00				Coffee
Processing and Sintering, Precursor-Based Methods I				
11:00 - 11:30	Emanuel	Ionescu	DE	Synthesis of nanocrystalline Gd ₂ O ₂ NCN from a versatile single-source precursor.
11:30 - 12:00	Koji	Morita	JP	Fabrication of Infrared Transparent Oxynitride Ceramics by Spark-Plasma-Sintering (SPS) Technique.
12:00 - 14:00				Lunch
Monday 3th - Afternoon				
Processing and Sintering, Precursor-Based Methods II				
14:00 - 14:30	Alexandra	Navrotsky	USA	Carbon, Calorimetry, Cataclysms, and Consequences
14:30 - 15:00	Gabriela	Mera	DE	Novel multifunctional silicon nitride based nanocomposites
15:00 - 15:30				Coffee
Nitrides, Oxynitrides & related Materials				
15:30 - 16:00	Richard	Laine	USA	Oxynitride ceramics and glasses as lithium ion conductors.
16:00 - 16:30	Pavel	Zinin	RU	Synthesis, Characterization of Elastic and Electrical Properties of Diamond-like BC _x Nano-Phases Synthesized under High and Low Pressures.
16:30 - 17:00	Mathis	Antlauf	DE	Rare Earth Element Pyrochlores close to the Spin Ice - Antiferromagnet Phase Boundary.
Tuesday 4th - Morning				
Modeling of New Phases – Theoretical Predictions of Structure & Properties II				
09:30 - 10:00	Amparo	Fuertes	ES	Exploring new transition metal perovskite oxynitrides.
10:00 - 10:30	Julong	He	CN	Hardness prediction of nitrides.
10:30 - 11:00				Coffee
Functional Nitrides for Energy and Environment I				
11:00 - 11:30	Teak	Boyko	CA	Electronic Structure of rs-AlN.
11:30 - 12:00	Yuji	Iwamoto	JP	Hydrogen absorption properties of polymer-derived amorphous AlN-based materials.
12:00 - 14:00				Lunch
Tuesday 4th - Afternoon				
Functional Nitrides for Energy and Environment II				
14:00 - 14:30	Wolfgang	Schnick	DE	Ammonothermal synthesis of novel functional nitrides
14:30 - 15:00	Franck	Tessier	FR	Determining the nitrogen content in (oxy)nitride materials.
15:00 - 15:30				Coffee
Functional Nitrides for Energy and Environment III				
15:30 - 16:00	Alexander	Moewes	CA	Direct Measurements of Energy Levels in Next Generation Nitride Phosphors.
16:00 - 16:30	Peter	Höhn	DE	Lithium Alkaline-Earth Metalide-Nitrides – from Simple to Complex.
16:30 - 17:00	Cordula	Braun	DE	Title to be announced

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Wednesday 5th - Morning			Modeling of New Phases – Theoretical Predictions of Structure & Properties III	
09:30 - 10:00	Jean-Francois	Halet	FR	Are nitrides good candidates thermoelectricity? A theoretical approach.
10:00 - 10:30	Yanchun	Zhou	CN	Theoretical prediction on the thermal conductivity of cubic silicon nitride.
10:30 - 11:00	Coffee			
			Novel Nitride-Based Materials: HP-HT Synthesis & Characterization I	
11:00 - 11:30	Yongjun	Tian	CN	Nanotwinned cubic Boron nitride and its limit of hardness.
11:30 - 12:00	Takashi	Taniguchi	JP	High pressure metathesis synthesis of Boron Nitride crystals and their isotope control.
12:00 - 14:00	Lunch			
Wednesday 5th - Afternoon			Excursion	

Thursday 6th - Morning			Novel Nitride-Based Materials: HP-HT Synthesis & Characterization II	
09:30 - 10:00	Ryo	Ishikawa	JP	A new microscopic approach to the atomic structures of light element materials.
10:00 - 10:30	Shrikant	Bhat	DE	High Pressure, High Temperature Behavior of Ge-Sn-N and Si-Ti-N Compounds
10:30 - 11:00	Coffee			
			Novel Nitride-Based Materials: HP-HT Synthesis & Characterization III	
11:00 - 11:30	Masashi	Hasegawa	JP	High Pressure Syntheses and Properties of Novel Binary and Ternary Transition-Metal Nitrides.
11:30 - 12:00	Ken	Niwa	JP	Ultra-high pressure synthesis of main group element nitrides.
12:00 - 14:00	Lunch			
Thursday 6th - Afternoon			Novel Nitride-Based Materials: HP-HT Synthesis & Characterization IV	
14:00 - 14:30	Norimasa	Nishiyama	JP	Fabrication of transparent polycrystalline cubic silicon nitride and its physical properties measurements.
14:30 - 15:00	Wai-Yim	Ching	USA	First-principles calculation of a model of intergranular glassy film in silicon nitride.
15:00 - 15:30	Coffee			
			Novel Nitride-Based Materials: HP-HT Synthesis & Characterization V	
15:30 - 16:00	Leonore	Wiehl	DE	Exploring new phases beyond spinel-Sn ₃ N ₄ .
16:00 - 16:30	Marcus	Schwarz	DE	Novel Oxynitride Spinel based on gamma-Ge ₃ N ₄ .