

SCTE2024
Preliminary Program

Monday 17.06.2024

9:00	Opening							
9:15	Plenary I		108. Design and discovery of novel transition metal based compounds—What happens when a Physicist tries to be a Chemist.	Paul Canfield				
10:00	COFFEE							
10:15	Lanthanide systems - Magnetism	o01	82. Electronic properties of Eu-T-X (T: transition metal, X: metalloid) compounds under high pressure	Honda	Oxidic materials, frustration	o07	35. Electric dipole frustration in the ferromagnet EuAl12O19	Bastien
10:30		o02	22. Structural, magnetic and electronic properties of EuZn2As2 single crystals	Rybicki		o08	65. Gapless quantum spin liquid in triangular antiferromagnet hexa-aluminate PrMgAl11O19	Kumar
10:45		o03	27. Complex magnetic order in Eu2Pd25n and EuPd5n2	Giovannini		o09	132. Out-of-equilibrium monopole dynamics in classical spin ices using the fluctuation-dissipation theorem	Morineau
11:00		o04	67. Synthesis of europium-based crystals by flux method	Podgórska		o10	17. Possible to control metastable charge-ordered states in δ -Ag2/3V2O5	Isobe
11:15		o05	109. Magnetic properties of the rare-earth aluminides RECo2Al8 (RE = La, Ce, Pr, Nd and Sm).	Ribeiro		o11	5. Effects of antiferromagnetic domain walls in single crystal Lu2Ir2O7	Stasko
11:30		o06	134. Massive electronic state and field-induced ordering in YbCo2	Tsujii				
11:45	LUNCH							
12:00	LUNCH							
12:15	LUNCH							
13:45	PLENARY II		37. Effect of the Weyl-Kondo Route on the Microstructure and hydrogen storage of HfXTi(1-x)NbVZr Refractory High-Entropy Alloys	Jacques Huot				
14:30	PLENARY III		121. Actinide science at high magnetic fields: piezomagnetism in uranium dioxide	Krzysztof Gofryk				
15:15	COFFEE							
15:45	Lanthanide systems - Magnetism	o12	49. Unusual magnetotransport in half-Heusler topological materials	Pavlosiuk	Applications	o18	105. Uranium Nuclear Safeguards: Automated Fission Track Analysis via Synthetic Model Generation and Image Analysis	Halevy
16:00		o13	150. Electronic structure of PrBi, a candidate for a strongly correlated Dirac semimetal	Starowicz		o19	39. Luminescent mechanochromic materials based on copper iodide compounds	Perruchas
16:15		o14	31. Electronic structure and physical properties of candidate topological magnetic materials GdAgGe and GdAuGe	Ram		o20	18. Elevating Cancer Treatment with Advanced Dosimeters and Crystal Precision	Rodrigues
16:30		o15	53. Physical properties studies of the multiple CDW phase transitions in quasi-1D RNiC2 compounds (R = rare earth metal)	Roman		o21	11. Fabrication of porous aluminum alloys for hydrogen production	Cuzacq
16:45		o16	96. Tuning the Weyl-Kondo Semimetal Ce3B4Pd3 via Stoichiometry	Reumann		o22	44. Scalability of the magnesianthermic synthesis of skutterudites and their protective coatings against oxidation	Hodroj
17:00		o17	62. Bulk physical properties and enantiomorph-resolved electrical transport of chiral narrow-band semiconductors RRhC2 (R = La, Ce)	Levytskyi		o23	15. MAX PHASE / MXENE / METAL NANOMATERIALS FOR ENERGY CONVERSION APPLICATION	Sergienko
17:15								
17:30 - 19:3	Welcome Party							

Tuesday 18.06.2024

9:00	PLENARY IV		28. Targeted Catalyst Development: An Innovative Playground for Intermetallic Compounds	Marc Armbrüster				
9:45	PLENARY V		152: High energy resolution X-ray spectroscopy for Material Science	Kristina Kvashnina				
10:30	COFFEE							
11:00	POSTERS - see list of posters below							
12:30	LUNCH							
14:00	Spectroscopy, Uranium	o24	24. Unraveling the Actinides 5f Enigma with X-Ray Emission Spectroscopy	Tobin	New compounds	o29	102. Crystal Structure and Chemical Bonding Analysis of Be-Ru Intermetallic Compounds	Agnarelli
14:15		o25	29. Synchrotron-radiation Spectroscopy Study of Charge Density Wave Rare-earth Tellurides	Kang		o30	104. Electronic structure of modified Ti2MnAl compound.	Gumulak
14:30		o26	20. Electronic structure of U hydrides probed by XPS and UPS	Koloskova		o31	100. Superconductivity in the Heusler and a related type intermetallic compounds	Klimczuk
14:45		o27	52. On valence-band photoemission from actinides	Kolorenc		o32	98. Occupation Density Wave in Nb2PdxSe5	Siegrist
15:00		o28	136. Fundamentals of the Uranium Halides	Silva		o33	8. Crystallochemistry, Thermodynamic and Physical Properties of the novel Cu3-x(AsySb1-y) intermetallic compound	Manfrinetti
15:15	COFFEE							
15:30	COFFEE							
15:45	COFFEE							
16:15	Spectroscopy, Uranium	o33	94. Electronic Structure and Local Magnetic Properties of Uranium Compounds Probed with XANES and XMCD.	Wilhelm	New Materials	o38	113. Lattice, magnetic, and in-gap optical states in van der Waals antiferromagnet VCl3	Hovancik
16:30		o34	101. Complex magnetic behaviours in U6T4Al43 (T = V, Nb, Ta, Cr, Mo, W) with isolated U-dumbbells	Pasturel		o39	143. Misfit layered compounds, a route towards natural morié lattices	Uhlírova
16:45		o35	43. Electrical resistivity of the Zintl phase UCu2P2	Cerna		o40	84. Functionalization of selected 2D materials with π -conjugated bis-hydrazone coordination complex	Zabierowski
17:00		o36	151. Exploration of the Exceptional Curie Temperatures in Uranium-Based UCu2P2 Ferromagnet Using Dilatometry	Buturlim		o41	92. Magnetically soft CoFeNi-based high-entropy alloys	Kozelj
17:15		o37	146. High-pressure investigation of the crystal structure of UCu2P2	Kolomiets		o42	74. Effect of sputtering power on the structural, optical and electrical properties of aluminum-doped zinc oxide thin film	Wanassiri
17:30		o37	146. High-pressure investigation of the crystal structure of UCu2P2	Kolomiets		o43	4. Transition temperature enhancement in superconducting high entropy alloy films through nitrogen addition	Flachbart
17:45	o37	146. High-pressure investigation of the crystal structure of UCu2P2	Kolomiets	o44	47. Long-range magnetic order in Tsai-type approximants and quasicrystals	Tamura		

WEDNESDAY		19.06.2024						
9:00	PLENARY VI	137. Towards the Metal Age of Thermoelectricity: High Thermoelectric Performance in Metallic Materials via Interband Scattering	Andrej Pustugow					
9:45	PLENARY VII	99. Geometrically frustrated Ytterbium-oxides for milli-Kelvin adiabatic demagnetization refrigeration	Philipp Gegenwart					
10:30	COFFEE							
11:00	POSTERS - see list of posters below							
12:30	LUNCH							
14:00	Thermoelectrics, magnetocalorics	o45	26. Mechanisms to inhibit thermal conductivity and enhance thermoelectric performance	Mori	Theory	o50	9. Discovery of Inorganic Solids with Desired Structure Motifs Guided by Machine Learning	Mar
14:15		o46	16. Thermoelectric properties of new transition metal chalcogenides and phosphides	Berthebaud		o51	36. What is the true ground-state of intermetallic compound Fe ₃ Al?	Sob
14:30		o47	81. Is the presence of Sn ₂₊ a crucial factor for the generation of low thermal conductivity in tin-based sulphides?	Gulot		o52	73. Predictive theory of the spontaneous volume magnetostriction in Fe-Ni alloys: bond repopulation model of Invar effect.	Khmelevskiy
15:00		o48	133. Room Temperature Giant Magnetocaloric Materials (MnFe)1.9 (PSI) Fe-Rich Compounds for Heat Pump Application	Hanggai		o53	3. Self-Consistent Renormalization Theory of Anisotropic Spin Fluctuations in Nearly Antiferromagnetic Metals	Konno
15:15		o49	19. Accelerating Material Synthesis Optimization with Bayesian Optimization: Investigating the Magnesio-reduction Synthesis of Magnetocaloric Mn _{5-x} Fe _x Si ₃	Le Tonquesse		o54	6. Intrinsic spin currents in noncentrosymmetric ferromagnets	Turek
15:30	COFFEE							
15:45	COFFEE							
16:15	f-materials	o55	54. Two-fluid model analysis of the terahertz conductivity of YBaCuO samples: optimally doped, underdoped and overdoped cases	Kadlec	Theory	o62	148. An ab-initio theory of vibrational inelastic tunneling spectrum of magnetic molecules adsorbed on superconductors	Koliogiorgos
16:30		o56	116. EFFECT OF HYDROGENATION ON THE CRYSTAL STRUCTURE AND MAGNETISM OF Nd ₂ Ni ₂ Sn	Miliyanchuk		o63	126. Large Magnetostriction and Anisotropy Energy in FePt and Fe ₅ Ta ₂	Legut
16:45		o57	10. Phase stability of solid solution La _{1-x} R _x Rh ₃ B (R = Gd, Lu and Sc) with anti-perovskite cubic type structure	Yubuta		o64	135. Phonons and superconductivity of high entropy alloys	Gutowska
17:00		o58	12. Unveiling exotic magnetic phase diagram of a non-Heisenberg quasicrystal approximant	Labib		o65	114. Lattice Dynamical Properties and its Thermal Conductivity in Two-Dimensional Boron Nitride (BN) and Graphene	Pastukh
17:15		o59	88. Revisiting the RE ₂ Pd ₃ Si ₅ series: flux growth, crystal structure and chemical bonding	Freccero		o66	76. New semiconductor Dicum hexaiodobromotitanate Cs ₂ TiBr ₄ I ₂ , First principles prediction:	Hadda
17:30		o60	45. The new PrNi ₆ Si ₆ intermetallic: crystal structure, thermal and electrical transport properties in the temperature range 2 - 900 K	Provino				
17:45		o61	56. Comparison of complex magnetic structures in RE ₂ TiIn ₄ (RE = rare earth element; T = Ni, Pd, Pt) compounds	Baran				

THURSDAY		20.06.2024						
9:00	PLENARY VIII	153. Mass renormalisation and superconductivity in quantum materials	Malte Grosche					
9:45	PLENARY IX	25. Optical detection of symmetry breakings in ferroic and multiferroic materials	Tsuyoshi Kimura					
10:30	COFFEE							
11:00	Hydrogen	o67	33. Metal hydridoborates, novel energy storage materials.	Cerny	Ferroics	o70	34. Collinear magnetic structures induced by ferroelectric distortion in multiferroic quadruple perovskites BiM ₃ C ₄ O ₁₂ and BiMn ₇ O ₁₂	Kamba
11:15		o68	51. H ₂ production and storage: New active and stable Ni ₉ Fe catalysts supported on conductive ball-milling prepared titanium oxides for OER in alkaline medium and design of light HEA's for H ₂ storage.	Raud		o71	79. RuIn ₆ Sn ₆ O ₁₆ , Ru ₄ In ₂ Sn ₂ O ₂₀ and Ir ₃ In ₃ Sn ₁₂ O ₁₄ - Synthesis and structural characterization of novel transition metal oxide clusters	Soehnel
11:30		o69	72. Light elements (H, O, F) insertion into the R ₅ Si ₃ (R = La, Nd, Pr) intermetallics: Structural studies and a gateway to catalysis applications	Alabd		o72	115. Sliding ferroelectricity in bulk misfit layered compound (BiS) _{1.24} Cr ₂ S ₂	Volny
11:45	LUNCH							
12:00	LUNCH							
13:30	New materials	o73	64. Structure and bonding of compounds in the Sc-rich part of the Sc-(Mn, Fe, Co, Ni, Pd, Pt)-Ga systems	Romaka	UTe ₂ and other U systems	o79	40. Physics and chemistry of UTe ₂	Svanidze
13:45		o74	141. NEW TERNARY ARSENIDE OF YTTERBIUM AND IRON – A NOVEL FERROMAGNETIC MATERIAL	Karychort		o80	127. Lattice dynamics of UTe ₂ in high magnetic fields studied by ultrasound	Valiska
14:00		o75	155. Unconventional magnetic and magneto-transport properties of tetragonal RbCo ₂ As ₂	Pandey		o81	130. Evolution of electronic structure across the U-Te series of compositions	Chitrova
14:15		o76	59. Comparative study of magnetocaloric effect in the RE ₂ TiIn ₄ (RE = Gd-Tm, T = transition metals = Pt, Pd, Rh) compounds	Hayyu		o82	87. New uranium-based arsenides: A small review	Zaremba
14:30		o77	60. Magnetic properties at ambient and under high pressure in Ho ₃ Co	Goswami				
14:45		o78	48. Synthesis and characterization of a new ferrimagnetic SmFe ₅ As ₃ pnictide	Krnel				
15:00		COFFEE						
15:15	COFFEE							
15:45	Phase diagrams	o83	61. System Thorium - Boron - Carbon, revisited	Rogl	Applications	o86	145. From Industry to Lab: Pioneering Automated Sample Preparation	Cermak
16:00		o84	23. Revisiting the Strontium-Mercury Phase Diagram	Nixon		o87	142. Electric field driving assembly of nanoparticles in magnetic ferrofluids	Idzikowski
16:15		o85	14. Impact of Rare Earth Element Integration on Glass Forming Ability and Thermal Stability of Zr-Based Bulk Metallic Glasses	Verma				
16:30	COFFEE							
16:45	Conference foto							
17:00 - 18:00	Committee meeting (room Paris)							
19:15-22:15	Conference dinner							

FRIDAY			21.06.2024
9:00	Borides	o88 55. Elastic and inelastic neutron scattering studies in ternary boride YbPt5B2	Bauer
9:15			
9:30		o89 30. Angle-resolved magnetoresistance in the strongly anisotropic quantum magnet TmB4	Gabani
9:45	PLENARY X	58. Antiferromagnetism, ferrimagnetism, magnetization reversal and linear magnetoelectricity in A4Nb2O9 where A=3d (Mn,Fe,Co,Ni) magnetic elements	Antoine Maignan
10:30	COFFEE		
11:00	Conference summary Prizes Announcement of next SCTE		

List of Posters		
P01	High-field magnetoacoustics of a Dy2Fe14Si3 single crystal	A.V. Andreev
P02	Enhanced Superconducting Critical Parameters in a New High-Entropy Alloy Nb0.34Ti0.33Zr0.14Ta0.11Hf0.08	Adam Pikul
P03	Possible realization of the Majumdar-Ghosh point in the mineral szénicsite	Adam Berlie
P04	Quantum Spin Liquid vs. Spin-glass: S(eff) = ½ Pyrochlore Fluoride Antiferromagnets NaCdCu2F7 & NaCdCo2F7	Andrej Kancko
P05	SYNTHESIS METHOD FOR SINGLE CRYSTALS OF THE COMPOUND Ti3SiC2	Anastasia Broda
P06	SPARK PLASMA SINTERING OF THE B13C2-VB2 COMPOSITION	Andriana Ivanushko
P07	Fluctuation conductivity and pseudogap in slightly doped HoBa2Cu3O7-δ single crystals	Liudmyla Bludova
P08	Magnetoelastic coupling in HoB4	Cinthia Antunes Correa
P09	Investigation of vacuum cryodeposited water films capturing carbon monoxide on an optical surface	Yevgeniy Korshikov
P10	First principles calculations of formation enthalpies of binary silver rare earth compounds Agx-Re1-x(Re=Gd, Nd)	ferroujd abdelhak
P11	Structural, electronic, elastic, mechanical and thermodynamic properties Au-RE (RE = Sc, Y, Lu) compounds	ferroujd abdelhak
P12	In situ diffraction study of the phase transformations occurring in the thermoelectric colusite Cu26V2Sn6S32	Florentine Guiot
P13	Thickness Dependence on the Properties of Sputtered-AZO Thin Film on Flexible Substrate for Transparent Heater	Watcharee Rattanasakulthong
P14	Strong electron-phonon coupling and superconducting gap in Heusler-type superconductor ScAu2Al	Gabriel Kuderowicz
P15	Superconductivity in medium- and high-entropy alloy thin films	Gabriel Pristáš
P16	The NdTm1-xAlx (T = Ni, Pd) continuous solid solutions	Galyna Nychyporuk
P17	New formula of Prediction of lattice constant in cubic perovskites : Revised Jiang model's	Krarcha Hadda
P18	Nonmagnetic-magnetic transition in Cr3As compound by doping Cobalt atoms.	Ferroujd Abdelhak
P19	Exploring a new method in the field of metal hydrides	Christophe CONA
P20	INFLUENCE OF Ti/Zr-BASED INTERMETALLICS ON HYDROGEN STORAGE AND GENERATION PROPERTIES OF MgH2 COMPOSITES	Ihor Zavalny
P21	Magnetic Structures of UnRhIn3n+2Materials	J. Custers
P22	Tailoring the size and shape of actinide compounds	Karin Popa
P23	Syntheses and some properties of solid solution Yb(Al,T)B4(T=Fe,Cr, Mo,Mn,W) compounds	Kaoru Kouzu
P24	Exploring Magnetic Transition Metal Sulfides and their Thermoelectric Properties	Laura Agnarelli
P25	Structural Characterization of Sol-Gel Derived High-Entropy Perovskite (Y0.2Nd0.2Sm0.2Eu0.2Er0.2)AlO3	Leonid Vasylechko
P26	Coupled magnetic-crystallographic transition and associated multi-functional properties in La0.9Ce0.1Fe12B6	Léopold Diop
P27	Strong magnetocaloric effect induced by anisotropic ferromagnetism in EuAl12O19	Adam Eliáš
P28	Magnetic Field-Induced Phase Transition and Weak Ferromagnetism in the Underdoped PrBCO Cuprate	Mahieddine Lahoubi
P29	Magnetization Study of the Low Temperature Anomalies in the Substituted Dysprosium-Yttrium Iron Garnets	Mahieddine Lahoubi
P30	Neutron diffraction and 2H solid-state NMR studies of the magnetically frustrated atacamite family Cu3(Cu1-xZnx)(OD)6Cl2(0 ≤ x ≤ 1)	Mickey Pedersen
P31	Crystal structure of the R1.33Ni3Ga8 (R = Tb, Dy, Ho, Er, Tm, Lu) compounds	Nataliya Muts
P32	More about the BaO-Lu2O3-CuO system	Oksana Zaremba
P33	PHASE EQUILIBRIA IN THE TERNARY SYSTEM Gd-Mn-Zn AND ELECTROCHEMICAL HYDROGENATION OF THE PHASES	Oksana Zelinska
P34	Magnetism and anisotropy of vdW antiferromagnet VCl3	Ondřej Michal
P35	Exploring electrical and magnetical properties of NiBr2	Parvez Ahmed Qureshi
P36	Structural and magnetic properties of R2Cu2In intermetallics	Petr Král
P37	Role of intercalated ions' 3d Orbitals on Electronic Transport in Magnetically Intercalated 2H-NbS2	Petar Popčević
P38	Anomalous Hall effect and chiral anomaly in antiferromagnetic DyPt5b	SNEHASHISH CHATTERJEE
P39	NEW QUATERNARY COMPOUNDS R2CoAl4Si2	Svitlana Pukas
P40	Spin-orbit interactions and magnetism in open d-shell oxides: CdVO3 and Ba2LuMoO6	Ryszard RADWANSKI
P41	Crystal Structure and Magnetic Properties of Uranium-Hafnium Hydrides	Shanmukh Veera Venkata Devanaboina
P42	Physical properties of a Kondo lattice oxypnictide Ce3Cu4P4O2	Szymon Królak
P43	Magnetoelastic properties of UIrGe studied by ultrasound	Tetiana Haidamak
P44	Formation, structure, and properties of R2Pt2Sn intermetallics (R = Sc, Y, La-Sm, Gd-Lu)	V.V. Romaka
P45	Phase equilibria, crystal structure, physical properties, and DFT study of ternary stannides in Hf-Cu-Sn system	V.V. Romaka
P46	Structure, properties, and DFT study of RCr6Ge6 (R = Gd-Lu) compounds with kagome lattice	V.V. Romaka
P47	Magnetic anisotropy of YCo12B6 single crystals	Léopold V. B. Diop
P48	Universal anomalous low-temperature properties of the binary ZnO-P2O5 glasses	Vladimir Tkač
P49	New ternary gallide Zr7Pd7Ga3:preparation, crystal and electronic structures	Volodymyr Babizhetskyy
P50	Structural and magnetic properties of the chiral solid solution La1-xCexRhC2	Volodymyr Levvyskiy
P51	Crystal structure of the Mg5.57Ni16Ge7.43 ternary compound	Volodymyr Pavlyuk
P52	Crystal structure of the new ternary indide ErCo2In	Yuriy Tyvanchuk
P53	CRYSTAL STRUCTURE OF THE NEW TERNARY PHASES IN THE Nd-Tm-Ge SYSTEM	Zinoviya Shpyrka