Tentative program of ICTMC-19 (2014/8/26)

	01Sept.(Mon)	02Sept.(Tue)	03Sept.(Wed)	04Sept.(Thu)	05Sept.(Fri)
9:00-9:15		Opening	[Wed-I-1A] **K. Kushiya**: High efficiency and large volume production of CIS-based modules	[Thu-I-1A] **S.-H. Wei**: First-principles design of multinary compounds for energy applications	[Fri-I-1A] **M. Ishii**: Selective atomic-scale-evaluation of luminescent rare-earth dopants: Site-selective x-ray absorption fine structure using x-ray excited optical luminescence (XEOL-XAFS)
9:15-9:30		[Tue-I-1A] **M. Yamaguchi**: Fundamentals and R&D Status of III-V Compound Solar Cells and Materials		[Thu-I-2A] **S. Schorr**: Point defect characteristics of quaternary compound semiconductors	[Fri-I-2A] **D. Poelman**: Persistent luminescence: materials and applications
9:30-9:45			[Wed-O-1A] **C. Pettenkofer**: From band structure to band allignment- a study on chalcopyrite surfaces		
9:45-10:00					
10:00-10:15		[Tue-I-2A] **H. Hosono**: Hydrogen-bearing iron-based superconductors	[Wed-O-2A] **G. Gurieva**: Structural characterisation of $Cu_2ZnSn(S_{1-x}Se_x)_4$	[Thu-I-3A] **R. Scheer**: Insights into thin film chalcopyrite/kesterite growth and solar cells from real time XRD	[Fri-I-3A] **N. Mamedov**: $TlMeX_2$: Band Structure, Optical Properties and Application
10:15-10:30			[Wed-O-3A] **K. Furuta**: Improvement of $Cu_2ZnSn(S,Se)_4$ solar cell efficiency by surface treatment		
10:30-10:50		Break	Break	Break	Break
10:50-11:05		[Tue-I-3A] **C. Heske**: Using soft x-rays and electrons to determine the electronic structure of multinary semiconductors for solar energy conversion	[Wed-I-2A] **I. M. Tiginyanu**: Nanostructuring of Semiconductor Compounds by Design	[Thu-O-1A] **T. Maeda**: First-principles study on alkali-metal effect of Li, Na, and K in Cu_2ZnSnS_4 and $Cu_2ZnSnSe_4$	[Fri-O-1A] **H. Kawaguchi**: Red emitting conductive $CuAlS_2$:Mn, Si thin films
11:05-11:20				[Thu-O-2A] **T. Nishimura**: Fabrication of $Cu(In,Ga)Se_2$ solar cells with a single graded band profile	[Fri-O-2A] **H. Anzai**: Relation between the nodal and antinodal gap and critical temperature in high-Tc superconductor $Bi_2Sr_2CaCu_2O_{8+\delta}$
11:20-11:35		[Tue-I-4A] **R. Agrawal**: Nanoparticle Ink Based Route for Thin Film Solar Cells of Quaternary Chalcogenides	[Wed-I-3A] **T. Arima**: Toward the electric-field control of magnetization in matter	[Thu-O-3A] **T. Fukuyama**: Surface electronic structure of CIGS films grown on polymer substrate	[Fri-O-3A] **K. Yamasaki**: Thermally induced spin injection in Co_2FeSi/Cu lateral spin-valve devices
11:35-11:50				[Thu-O-4A] **J. Y. Kim**: Fabrication of a $Cu_2ZnSnSe_4$ thin film solar cell with 7.3 % efficiency from a sputtered metallic precursor without using a toxic H2Se gas atmosphere	[Fri-O-4A] **K. Mimura**: Hard X-Ray Photoemission Study of $EuNi_2X_2$ (X = Si, P, Ge): Relation between Eu Mean Valence and Eu 3d Spectral Shape
11:50-12:05		[Tue-I-5A] **N. Ekins-Daukes**: Nanostructured electronic and optical materials for high efficiency solar cells	[Wed-I-4A] **Y. Sutou**: Phase change characteristics of Cu-Ge-Te ternary film and its application to PCRAM,	[Thu-O-5A] **W. Gong**: Crystallographic and optical properties of $(Cu, Ag)_2ZnSnS_4$ and $(Cu, Ag)_2ZnSnSe_4$ solid solutions	[Fri-I-4A] **T. Araki**: RF-MBE Growth of InN and InGaN Ternary Alloys Using DERI
12:05-12:20				[Thu-O-6A] **Z. Jehl**: Characterization of narrow bandgap CIGSe under light concentration and tandem conditions	
12:20-14:00		Lunch	Lunch	Lunch	[Fri-I-5A] (12:20-12:50) **J. Paier**: Redox properties and reactivity of Au/ceria and VOx/ceria interfaces: Insights, pitfalls, and caveats born out of DFT (12:50-13:00) Closing
14:00-14:15	Tutorials on "Recent Status of Multinary Compounds Solar Cells and Related Characterization Techniques (in Japanese)", organized by "Professional Group of Multinary Compounds and Solar Cells" in JSAP.	[Tue-O-1A] **S. Ikeda**: Fabrication of Cu_2ZnSnS_4 Thin Films using Electrodeposited Metallic Precursors [Tue-I-6B] **R. J. Walters**: High Efficiency PV Opportunities for Quantum Wells on InP	[Wed-O-4A] **J. Chantana**: Bismuth-Doped $Cu(In,Ga)Se_2$ Absorber Prepared by Multi-layer Precursor Method and Its [Wed-O-4B] **S. Kim**: Ce^{3+}-activated Novel Oxide Phosphors	Symposium III"Multinary materials in the next generation": Introductory talk, [Thu-S-1A] **K. Takanashi**: Advanced spintronic materials based on ordered alloys, [Thu-S-2A] **J. Akimitsu**: The new superconductor recently discovered by our group, [Thu-S-3A] **S. Maekawa**: Spin Current and Spin Seebeck Effect Closing talk [Thu-O-7B] **S.-W. Chang**: Growth of amorphous Zn-Sn-O buffer layers deposited via RF magnetron sputtering for CIGS	
14:15-14:30		[Tue-O-2A] **T. Yamamoto**: Improvement of In_2S_3/ZnCuInS$_2$ interfaces for wide-gap solar cells	[Wed-O-5A] **M. Yamazaki**: Photoluminescence and Photoaoustic Study of $Cu(In,Ga)S_2$ Crystals [Wed-O-5B] **T. Ishinaga**: Luminescent Property and Mechanism of $ZnAl_2O_4$ Ultra Violet Emitting Phosphor		[Thu-O-8B] **T. Washio**: Optimization of Sulfurization Condition of CZTS Thin Films by TG/DTA
14:30-14:45		[Tue-O-3A] **A. Kanai**: Annealing temperature dependence of photovoltaic properties of solar cells containing Cu_2SnS_3 thin [Tue-O-3B] **T. Ohshima**: In-situ Observation of Radiation Degradation of GaAs Solar Cells with InGaAs Quantum Dot	[Wed-O-6A] **H.-C. Wu**: High performance IGZO thin film transistors with optimized IGZO composition structure using [Wed-O-6B] **M. Yamashita**: Optical Properties and Core State of AlN - BN Ternary Compound by ab initio		[Thu-O-9B] **N. Tsuboi**: $CuInS_2$ films by reactive-sputtering method with Cu and In targets for metal-sources and H_2S or
14:45-15:00		Break	Break		[Thu-O-10B] **R. Mantoku**: Cu_2SnS_3 films prepared by reactive-sputtering alternately Cu and Sn targets under Ar-
15:00-15:15		Symposium I "Any new photovoltaic materials superior to CIGS?" [Tue-S-1A] **R. Scheer**: A unique material? - Historic achievements of CIGS research [Tue-S-2A] **H. Katagiri**: Recent progress and future aspects of CZTS solar cells [Tue-S-3A] **T. Minemoto**: Development of chalcogenide compound semiconductors for solar cell applications [Tue-I-7B] **T. Takamoto**: Improvement on High efficiency Multi-junction Solar Cells	Symposium II "Advanced characterization of solar cells" [Wed-S-1A] **S. Shirakata**: Introductory Talk [Wed-S-2A] **M. Okano**: Photocarrier dynamics in CIGS, CZTS and related materials revealed by ultrafast optical spectroscopy [Wed-S-3A] **T. Takahashi** (Univ. Tokyo): Photo-assisted scanning probe microscopy on CIGS solar cells [Wed-S-4A] **S. Kawakita**: Radiation-induced defects in CIGS films [Wed-O-7B] **P. Zawadzki**: Compositional inhomogeneities in tetrahedrally bonded solar absorbers: Cu_2SnS_3 and [Wed-O-8B] **A. Sigemi**: First-principles Calculation of Cu_2SnS_3 and Related Compounds		[Thu-O-11B] **T. Hamada**: Effect of sintering time on uniformity of electrodeposited Cu_2ZnSnS_4 thin films studied
15:15-15:30					[Thu-O-12B] **D. Kawade**: Fabrication of visible-light transparent solar cells composed of NiO/Ni_xZn_{1-x}O/ZnO
15:30-15:45		[Tue-O-4B] **O. Alexperov**: Temperature Dependent Spectroscopic Ellipsometry of Ag_2Se and Ag_2S with Phase	[Wed-O-9B] **M. Murata**: Effect of Conduction Band Offset between Transparent Electrode and Absorber in Thin Film		
15:45-16:00		[Tue-O-5B] **H. Sato**: Electronic Structure of $YbNiX_3$ (X=Si, Ge) Studied by Hard X-Ray Photoemission Spectroscopy	[Wed-O-10B] **S. Natatsuka**: Preparation of $ZnSnP_2$ polycrystal by flux method	Excursion	
16:00-16:15		[Tue-O-6B] **N. Happo**: Local Structure Analysis of Fuel Cell Electrolyte Material YSZ by X-ray Fluorescence Holography	[Wed-O-11B] **L. Duclaux**: Growing optimization and characterization of $Cu_xAl_yS_z$ thin films deposited by atomic		
16:15-16:30		[Tue-O-7B] **S. Hosokawa**: Structural studies on $TlInSe_2$ thermoelectric material by x-ray diffraction, XAFS, and x-ray	[Wed-O-12B] **R. Paucar**: Temperature dependence of the low-frequencies Raman scattering in $TlInS_2$		
16:30-16:45		Break	Break		
16:45-17:00		Symposium I "Any new photovoltaic materials superior to CIGS?" [Tue-S-4A] **A. Wakamiya**: Recent progress of perovskite solar cells [Tue-S-5A] **N. Terada**: Characterization of materials for solar cells by direct and inverse photoemission spectroscopy [Tue-S-6A] **T. Sakurai**: Electrical and optical characterization of compound semiconductors for solar cells [Tue-O-8B] **Y. Maeda**: Fabrication of transparent CuxZnyS/ZnS heterojunction diodes by photochemical	Symposium II "Advanced characterization of solar cells" [Wed-S-5A] **T. Maeda**: First Principles insights on characteristics of $CuInSe_2$ and Cu_2ZnSnS_4 based photovoltaic semiconductors [Wed-S-6A] **S. Shirakata**: Photoluminescence characterization of recombination process in CIGS thin films and solar cells [Wed-S-7A] **A. Yamada**: Concluding Remarks [Wed-O-13B] **T. Ito**: Detection of magnetic domains of multiferroic $BiFeO_3$ single crystals with single ferroelectric		
17:00-17:15	Welcome reception	[Tue-O-9B] **T. Okamoto**: Deposition of Cl-doped CdTe Polycrystalline Films by Close-Spaced Sublimation	[Wed-O-14B] **K. Hayashi**: Pyroelectric Energy Harvesting Using $BaTiO_3$ Compounds		
17:15-17:30		[Tue-O-10B] **A. Uruno**: The Growth of $AgGaTe_2$ layers on glass substrates with Ag_2Te buffer layer by closed space	[Wed-O-15B] **A. M. Kerimova**: Metallic conductivity and weak antilocalization in $Bi_2Te_{2.7}Se_{0.3}$ thin films		
17:30-17:45		[Tue-O-11B] **J. Rame**: Chemical synthesis and crystal growth of $AgGaGeS_4$, a material for mid-IR nonlinear laser	[Wed-O-16B] **S. Maensiri**: Structure, and Magnetic Properties of Monodisperse Ni-doped CeO_2 Nanospheres		
17:45-18:00		[Tue-O-12B] **A. Ashida**: Electrical Properties of Cu_2O Thin Films Prepared by Electrochemical Process	[Wed-O-17B] **M. Ishikawa**: First-principles study of doping properties in $ZnSnAs_2$		
18:00-18:15		[Tue-O-13B] **T. Suzuki**: Epitaxial Growth of a Chromium Nitride Thin Films with Addition of Silicon	[Wed-O-18B] **T. Arslanov**: Pressure-induced Unconventional Behavior of Ferromagnetically MnP Clusters in Strongly		
18:15-18:30		Break	Break		
18:30-18:45		poster 1 odd number of poster numbers	poster 2 even number of poster numbers	Banquet	
18:45-19:00					
19:00-19:15					
19:15-19:30					
19:30-19:45					
19:45-20:00					

Poster: 131papers