

## List of Speakers (tentative)

Research field	Type	Name	Position / Affiliation	Title	Author
Special Lecture	Invite	Ei-ichi Negishi	Nobel Prize	Magical Power of d-Block Transition Metals - Past, Present, and Future	Eiichi-Negishi
Special Session		Heinrich Rohrer	Nobel Prize	Celebration of the 30th anniversary of the first paper about the scanning tunneling microscope (STM)	
		James Gimzewski	Prof. / UCLA		
		Masakazu Aono	MANA, NIMS		
Nanomaterials	Invite	Mikael Käll	Prof./ Chalmers Univ. of Technology	Optical Antennas for Nanoscale Sensing and Spectroscopy	Mikael Käll
	Invite	Hiroshi Kitagawa	Prof./ iCeMS, Kyoto University	Creation of the Functional Materials on the Basis of the Element-Fusion Strategy	Hiroshi Kitagawa
	PI	Yoshio Bando	MANA	Recent progress in BN nanotubes/nanosheets and polymeric composites	Yoshio Bando
	PI	Toyohiro Chikyo	MANA	Interactions of nano interface and their control for future nano electronics	T.Chikyow, T.Nabatame, T.Nagata, M.Yoshitake, S.Yagyu, Y.Yamashita,J.Chen and T.Sekiguchi
	MANA Scientist	Takao Mori	MANA	Functionalization of common, light elements: Development of high temperature thermoelectric materials	Takao Mori
	MANA Scientist	Takashi Sekiguchi	MANA	Electron-beam-induced current (EBIC) study of advanced semiconductor materials and devices	Takashi Sekiguchi, Kentaro Watanabe, Jun Chen, Karolin Jiptner
	Independent Scientist	Minoru Osada	MANA	2D Oxide Nanosheets: To Graphene and Beyond	Minoru Osada and Takayoshi Sasaki
	Independent Scientist	Lionel Vayssieres	MANA	Novel quantum-confined metal oxide hetero-nanostructures	Lionel Vayssieres
Nanosystem	Invite	Adrian Bachtold	Prof./ Catalan Institute of Nanotechnology (ICN)	NEMS resonators made from nanotubes and graphene	Adrian Bachtold
	Invite	Naoki Yokoyama	AIST	Development of Core Technologies for Green Nanoelectronics	Naoki Yokoyama, Collaborative Research Team Green Nanoelectronics Center, AIST
	Invite	Motoko Kotani	WPI-AIMR, Tohoku University	A mathematical challenge to a new phases of materials science	Motoko Kotani
	Satellite PI	Christian Joachim	MANA/CNRS	Atoms and single molecule logic gates on a surface	C. Joachim
	PI	Xiao Hu	MANA	Detecting and Manipulating Nonlocal Quantum Entanglement of Electrons based on Nano Superconductivity	Zhi Wang and Xiao Hu
	PI	Hideaki Takayanagi	MANA	Graphene-SQUID	H. Takayanagi and K. Tsumura(tentative)
	MANA Scientist	Tohru Tsuruoka	MANA	Gapless-type atomic switches using organic and inorganic thin layers	T. Tsuruoka, T. Hasegawa, K. Terabe, and M. Aono
	MANA Scientist	Yutaka Wakayama	MANA	Solid-state reactions at hetero-molecular interface	Yutaka Wakayama
	Independent Scientist	Genki Yoshikawa	MANA	Possibilities and Challenges of MSS	Genki Yoshikawa
	Satellite Researcher	Adam Stieg	UCLA	Neuromorphic Atomic Switch Networks: Rise of the Unorganized Machines	Adam Stieg
Nanogreen	Invite	Nenad M. Markovic	Dr./Argonne National Laboratory	Electrochemical Interfaces: Bridging the Gap between Energy Conversion and Energy Storage Systems	N.M. Markovic
	Invite	Hiroyuki Nishide	Waseda University	Radical Polymers for Charge-Separation, -Transport, and -Storage	Hiroyuki Nishide (Waseda Univ, Dept Applied Chem)
	Invite	Tsutomu Katsuki	I2CNER, Kyushu University	Aerobic Oxidation, a Sustainable Material Transformation	Tsutomu Katsuki
	PI	Kohei Uosaki	MANA	Efficient Photoenergy Conversion in Molecular Based System	Kohei Uosaki
	MANA Scientist	Kentaro Tashiro	MANA	Sequential Isomers of Metal-Organic Complex Arrays	KentaroTashiro, Alejandro M. Fracaroli, Omar M. Yaghi
	MANA Scientist	Daniele Pergolesi	MANA	Oxygen-ion Conducting Properties of Superlattices based on Ceria and Zirconia	Daniele Pergolesi (MANA Scientist), Emiliana Fabbri (MANA Scientist), Enrico Traversa (MANA P.I.)
	MANA Scientist	Satoshi Tominaka	MANA	Nanostructured Materials for Fuel Cells: Synthesis Based on Nanoscale Phenomena and Rational Arrangement for Novel Devices	Satoshi Tominaka
	Independent Scientist	Naoto Shirahata	MANA	A New Family of Color-Tunable Light Emitting Silicon Nanoparticles with High Quantum Yields	Naoto Shirahata
Nanobio	Invite	David F. Williams	Prof./ Wake Forest Institute of Regenerative Medicine	A Framework of Biocompatibility Pathways	David Williams
	Invite	Yoshihiro Ito	Dr./ Riken	Evolutionary molecular engineering for biomaterials design	Yoshihiro Ito Nano Medical Engineering Laboratory, RIKEN Advanced Science Institute
	Satellite PI	Yukio Nagasaki	Univeristy of Tsukuba	Anticancer Redox-Nanotherapy	Yukio Nagasaki
	PI	Takao Aoyagi	MANA	Cell function control by smart biomaterials	Takao Aoyagi
	PI	Guoping Chen	MANA	Nano- and Micro-Structured Porous Scaffolds and Biomimetic Biomaterials for Tissue Regeneration	Guoping Chen, Hongxu Lu and Naoki Kawazoe
	MANA Scientist	Tetsushi Taguchi	MANA	A novel citric acid-crosslinked gelatin with anti-thrombogenic and endothelialization activity	T. Taguchi, M. Inoue, M. Sasaki, Y. Katada, K. Fujiu, I. Manabe, and R. Nagai
	MANA Scientist	Masanori Kikuchi	MANA	Activation of bone-related cell functions by hydroxyapatite/collagen bone-like nanocomposite.	Masanori Kikuchi (NIMS), Yoshihisa Koyama (NIMS and TMDU), Kazuo Takakuda (TMDU), Kazuya Edamura (NU), Atsushi Irie (TMIMS)
ICYS	ICYS-MANA	Ryoma Hayakawa	ICYS/MANA	Manipulation of Single-Electron Tunneling Due to Molecular Orbitals ~ Toward Multi-Functional Single-Electron Memory Devices ~	Ryoma Hayakawa, Yasushi Ishiguro, Chikyow Toyohiro, and Yutaka Wakayama
	ICYS-MANA	Lok Kumar Shrestha	ICYS/MANA	Facile synthesis of C60 microcrystals with diverse morphologies via liquid-liquid interfacial precipitation (LLIP) method	Lok Kumar Shrestha*, Jonathan P. Hill, Kun'ichi Miyazawa, and Katsuhiko Ariga
	ICYS-MANA	Fatin Hajjaj	ICYS/MANA	Magnetically Switchable Triphenylene-Based Ionic Liquid Crystals	Fatin Hajjaj, Takashi Kajitani, Akihisa Yamaguchi, Yohei Yamamoto, Kenichi Kato, Takanori Fukushima, and Takuzo Aida
	ICYS-MANA	Yuanjian Zhang	ICYS/MANA	Polymeric Carbon Nitrides: Semiconducting Properties and Emerging Photovoltaic Applications	Yuanjian Zhang*, Toshiyuki Mori, and Jinhua Ye
	ICYS-Sengen	Jianhua Gao	ICYS	Fabrication of graphene and boron nitride layers on metal surfaces by surface segregation	JianhuaGao, Keisuke Sagisaka, Nobuyuki Ishida, Scott Isaacson Daisuke Fujita
	ICYS-Sengen	Zoe Schnepf	ICYS	Materials for sustainable photocatalysis	Zoe Schnepf, Stefan Glatzel, Yoshio Sakka, Jinhua Ye
	ICYS-Sengen	Hong-Tao Sun	ICYS	Subvalent Bismuth Optically Active Centers: a New 'Oil' for Photonics	Hong-Tao Sun, Yoshio Sakka, Naoto Shirahata
	ICYS-Sengen	Han Zhang	ICYS	The stabilized La-surface of a LaB6 field emission gun	Han Zhang, Jie Tang, Yasushi Yamauchi