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**Thomas George
M. Saif Islam
Achyut K. Dutta**
Editors

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The CID Number appears on each page of the manuscript. The complete citation is used on the first page, and an abbreviated version on subsequent pages. Numbers in the index correspond to the last two digits of the six-digit CID Number.

Contents

xiii Conference Committee

TWO-DIMENSIONAL NANO-LAYERED SYSTEMS: GRAPHENE AND BEYOND

- 9083 02 **Two-dimensional atomic crystals beyond grapheme (Keynote Paper)** [9083-1]
A. B. Kaul, National Science Foundation (United States)
- 9083 04 **Novel layered two-dimensional semiconductors as the building blocks for nano-electronic/photonic systems (Invited Paper)** [9083-3]
G. Su, D. De, V. G. Hadjiev, H. Peng, Univ. of Houston (United States)
- 9083 05 **Graphene and beyond-graphene 2D crystals for next-generation green electronics (Invited Paper)** [9083-4]
J. Kang, W. Cao, X. Xie, D. Sarkar, W. Liu, K. Banerjee, Univ. of California, Santa Barbara (United States)
- 9083 07 **High-field and thermal transport in 2D atomic layer devices (Invited Paper)** [9083-6]
A. Serov, V. E. Dorgan, A. Behnam, Univ. of Illinois at Urbana-Champaign (United States); C. D. English, Stanford Univ. (United States); Z. Li, Stanford Univ. (United States) and Univ. of Illinois at Urbana-Champaign (United States); S. Islam, Univ. of Illinois at Urbana-Champaign (United States); E. Pop, Stanford Univ. (United States) and Univ. of Illinois at Urbana-Champaign (United States)

EMERGING ELECTRONIC DEVICES/SYSTEMS BASED ON ADAPTIVE AND METAMATERIALS I

- 9083 09 **Coherent phonons in carbon based nanostructures (Invited Paper)** [9083-8]
G. D. Sanders, Univ. of Florida (United States); A. R. T. Nugraha, K. Sato, Tohoku Univ. (Japan); J.-H. Kim, Sungkyunkwan Univ. (Korea, Republic of); Y.-S. Lim, Konkuk Univ. (Korea, Republic of); J. Kono, Rice Univ. (United States); R. Saito, Tohoku Univ. (Japan); C. J. Stanton, Univ. of Florida (United States)
- 9083 0A **Double graphene-layer structures for adaptive devices (Invited Paper)** [9083-9]
V. Mitin, Univ. at Buffalo (United States); V. Ryzhii, T. Otsuji, Tohoku Univ. (Japan); M. Ryzhii, Univ. of Aizu (Japan); M. S. Shur, Rensselaer Polytechnic Institute (United States)

EMERGING ELECTRONIC DEVICES/SYSTEMS BASED ON ADAPTIVE AND METAMATERIALS II

- 9083 0B **Terahertz devices and device modeling (Invited Paper)** [9083-10]
R. Soligo, M. Saraniti, S. M. Goodnick, Arizona State Univ. (United States)
- 9083 0C **Investigation of MEMS bi-material sensors with metamaterial absorbers for THz imaging (Invited Paper)** [9083-11]
F. Alves, D. Grbovic, G. Karunasiri, Naval Postgraduate School (United States)

GRAPHENE AND 2D ELECTRONICS

- 9083 0D **Growth of 2D heterostructures of graphene/BN (Invited Paper)** [9083-12]
J. Hwang, B. R. Calderon, H. A. Alsaman, J. Y. Kwak, M. Kim, M. G. Spencer, Cornell Univ. (United States)
- 9083 0I **Graphene based active and passive component development on transparent substrates (Invited Paper)** [9083-17]
J. H. Schaffner, K. Son, H. J. Song, J. S. Moon, A. A. Kiselev, H.-C. Seo, B. Yang, D. Wong, HRL Labs., LLC (United States)

1D NANOELECTRONICS: NANOWIRE AND NANOTUBE ARCHITECTURE TRANSISTORS

- 9083 0K **Group IV nanotube transistors for next generation ubiquitous computing (Invited Paper)** [9083-19]
H. M. Fahad, A. M. Hussain, G. A. Sevilla Torres, King Abdullah Univ. of Science and Technology (Saudi Arabia); S. K. Banerjee, The Univ. of Texas at Austin (United States); M. M. Hussain, King Abdullah Univ. of Science and Technology (Saudi Arabia)
- 9083 0M **En route toward high performance electronics based on single-walled carbon nanotubes (Invited Paper)** [9083-21]
Q. Cao, IBM Thomas J. Watson Research Ctr. (United States)

MICRONANO TECHNOLOGIES FOR ADAPTIVE OPTICS AND BEAM CONTROL

- 9083 0N **Adaptive optics center of excellence for national security (Keynote Paper)** [9083-22]
B. Agrawal, Naval Postgraduate School (United States)
- 9083 0O **Advanced deformable mirrors for high-power lasers (Invited Paper)** [9083-23]
J. Mansell, J. Jameson, B. Henderson, MZA Associates Corp. (United States)
- 9083 0Q **Beam control in multiphoton microscopy using a MEMS spatial light modulator (Invited Paper)** [9083-25]
T. Bifano, H. Paudel, Boston Univ. (United States)
- 9083 0R **Adaptive optics correction of a laser beam propagating underwater (Invited Paper)** [9083-117]
S. R. Restaino, W. Hou, A. Kanaev, S. Matt, C. Font, U.S. Naval Research Lab. (United States)

MICRONANO SENSOR SYSTEMS FOR POWER AND CHEMICAL PRODUCTION APPLICATIONS

- 9083 0T **Laser-absorption sensing of gas composition of products from coal gasification (Invited Paper)** [9083-28]
J. B. Jeffries, R. Sur, K. Sun, R. K. Hanson, Stanford Univ. (United States)

- 9083 0U **Industrial Raman gas sensing for real-time system control (Invited Paper)** [9083-29]
M. Buric, J. Mullen, B. Chorpene, S. Woodruff, National Energy Technology Lab. (United States)
- 9083 0V **Optical fiber Fabry-Perot interferometry (Invited Paper)** [9083-30]
A. Wang, Virginia Polytechnic Institute and State Univ. (United States)
- 9083 0W **Novel strategies for development of gas sensors for combustion and medical applications (Invited Paper)** [9083-31]
A. Fulmer, M. Mullen, C. Sun, P. K. Dutta, The Ohio State Univ. (United States)
- 9083 0X **Trace chemical detection in air using electronic noses and nano-structured sensing materials** [9083-119]
K. D. Benkstein, C. B. Montgomery, S. Semancik, National Institute of Standards and Technology (United States)
- 9083 0Y **Metal oxide gas sensors on the nanoscale (Invited Paper)** [9083-33]
A. Plecenik, Comenius Univ. in Bratislava (Slovakia); A. A. Haidry, Comenius Univ. in Bratislava (Slovakia) and German Aerospace Ctr. (Germany); T. Plecenik, P. Durina, M. Truchly, Comenius Univ. in Bratislava (Slovakia); M. Mosko, Comenius Univ. in Bratislava (Slovakia) and Institute of Electrical Engineering, SAS (Slovakia); B. Grancic, M. Gregor, T. Roch, L. Satrapinsky, Comenius Univ. in Bratislava (Slovakia); A. Moskova, Institute of Electrical Engineering, SAS (Slovakia); M. Mikula, P. Kus, Comenius Univ. in Bratislava (Slovakia)
- 9083 0Z **Use of nanostructured oxides for selective gas-sensing (Invited Paper)** [9083-34]
Y. Gönüllü, German Aerospace Ctr. (Germany) and Univ. of Cologne (Germany); B. Saruhan, German Aerospace Ctr. (Germany)
- 9083 10 **Novel sensors to enable closed-loop active clearance control in gas turbine engines (Invited Paper)** [9083-35]
J. Geisheimer, T. Holst, Meggitt Sensing Systems (United States)

ADVANCED MICRO/NANOTECHNOLOGIES FOR SOLAR ENERGY GENERATION: JOINT SESSION WITH CONFERENCES 9083 AND 9115

- 9083 12 **Fundamentals and recent results of super high-efficiency solar cells (Invited Paper)** [9083-38]
M. Yamaguchi, K. Ikeda, Toyota Technological Institute (Japan); T. Takamoto, Sharp Corp. (Japan); N. Kojima, Y. Ohshita, Toyota Technological Institute (Japan)
- 9083 13 **Nanoscale optimization of quantum dot media for effective photovoltaic conversion (Invited Paper)** [9083-39]
K. A. Sablon, U.S. Army Research Lab. (United States); A. Sergeev, Univ. at Buffalo (United States); J. W. Little, U.S. Army Research Lab. (United States); N. Vagidov, V. Mitin, Univ. at Buffalo (United States)

MESODYNAMIC ARCHITECTURES

- 9083 15 **Optical modular arithmetic (Invited Paper)** [9083-41]
D. S. Pavlichin, H. Mabuchi, Stanford Univ. (United States)
- 9083 17 **Traveling-wave photon-phonon coupling as the basis for new signal processing technologies (Invited Paper)** [9083-43]
P. T. Rakich, Yale Univ. (United States); J. A. Cox, Sandia National Labs. (United States); H. Shin, Yale Univ. (United States); Z. Wang, H. Mousavi, H. Dong, The Univ. of Texas at Austin (United States); R. Jarecki, A. Siddiqui, Sandia National Labs. (United States); R. C. Potter, Rockwell Collins, Inc. (United States)

3D PRINTING: AN EMERGING TECHNOLOGY FOR MICRO/NANO DEVICE FABRICATION

- 9083 1D **3-D printing of liquid metals for stretchable and flexible conductors (Invited Paper)** [9083-49]
C. Trlica, D. P. Parekh, L. Panich, C. Ladd, M. D. Dickey, North Carolina State Univ. (United States)

FLEXIBLE ELECTRONICS: MULTIFACETED EVOLUTIONS AND APPLICATIONS

- 9083 1F **Implementing MEMS technology for soft, (bio)electronics interfaces (Invited Paper)** [9083-51]
A. Romeo, Y. Hofmeister, S. P. Lacour, Ecole Polytechnique Fédérale de Lausanne (Switzerland)
- 9083 1G **Advanced flexible electronics: challenges and opportunities (Invited Paper)** [9083-52]
S. W. Bedell, D. Shahrjerdi, K. Fogel, P. Lauro, C. Bayram, B. Hekmatshoar, N. Li, J. Ott, D. Sadana, IBM Thomas J. Watson Research Ctr. (United States)
- 9083 1H **High performance bio-integrated devices (Invited Paper)** [9083-53]
D.-H. Kim, J. Lee, M. Park, Seoul National Univ. (Korea, Republic of)
- 9083 1I **High-performance flexible microwave passives on plastic (Invited Paper)** [9083-57]
Z. Ma, J.-H. Seo, S. J. Cho, Univ. of Wisconsin-Madison (United States); W. Zhou, The Univ. of Texas at Arlington (United States)
- 9083 1J **Mechanics of flexible electronics and photonics based on inorganic micro- and nanomaterials (Invited Paper)** [9083-55]
N. Lu, S. Yang, S. Qiao, The Univ. of Texas at Austin (United States)
- 9083 1K **Transformational electronics: a powerful way to revolutionize our information world (Invited Paper)** [9083-54]
J. P. Rojas, G. A. Torres Sevilla, M. T. Ghoneim, A. M. Hussain, S. M. Ahmed, J. M. Nassar, R. R. Bahabry, M. Nour, A. T. Kutbee, E. Byas, B. Al-Saif, A. M. Alamri, M. M. Hussain, King Abdullah Univ. of Science and Technology (Saudi Arabia)

- 9083 1L **Arthropod eye-inspired digital camera with unique imaging characteristics (Invited Paper)** [9083-58]
J. Xiao, Univ. of Colorado Boulder (United States); Y. M. Song, Y. Xie, V. Malyarchuk, Univ. of Illinois at Urbana-Champaign (United States); I. Jung, Kyung Hee Univ. (Korea, Republic of); K.-J. Choi, Univ. of Illinois at Urbana-Champaign (United States); Z. Liu, A*STAR Institute of High Performance Computing (Singapore); H. Park, Harvard Univ. (United States); C. Lu, Zhejiang Univ. (China) and Northwestern Univ. (United States); R.-H. Kim, Univ. of Illinois at Urbana-Champaign (United States); R. Li, Northwestern Univ. (United States) and Dalian Univ. of Technology (China); K. B. Crozier, Harvard Univ. (United States); Y. Huang, Northwestern Univ. (United States); J. A. Rogers, Univ. of Illinois at Urbana-Champaign (United States)
- 9083 1M **Soft bio-integrated systems for continuous health monitoring (Invited Paper)** [9083-59]
M. Raj, P. H. Wei, B. Morey, X. Wang, B. Keen, P. DePetrillo, Y. Y. Hsu, R. Ghaffari, MC10, Inc. (United States)
- 9083 1N **Two-dimensional atomic sheets for heterogeneous flexible high-frequency and low-power nanoelectronics (Invited Paper)** [9083-56]
D. Akinwande, The Univ. of Texas at Austin (United States)

MICRO AUTONOMOUS SYSTEMS TECHNOLOGY (MAST): PERFORMANCE BOUNDS AND TRADE SPACE STUDIES: JOINT SESSION WITH CONFERENCES 9083/9084/9096

- 9083 1O **From wakes to wings: using a multi-fidelity approach to design flapping wings (Invited Paper)** [9083-60]
D. J. Willis, Univ. of Massachusetts Lowell (United States); H. Salehipour, Univ. of Toronto (Canada)
- 9083 1P **Characterization and enhancement of micro brushless DC motor response (Invited Paper)** [9083-61]
J. Conroy, U.S. Army Research Lab. (United States); A. Kehlenbeck, J. S. Humbert, Univ. of Maryland, College Park (United States); W. Nothwang, U.S. Army Research Lab. (United States)
- 9083 1Q **Power and weight considerations in small, agile quadrotors (Invited Paper)** [9083-62]
Y. Mulgaonkar, M. Whitzer, Univ. of Pennsylvania (United States); B. Morgan, C. M. Kroninger, A. M. Harrington, U.S. Army Research Lab. (United States); V. Kumar, Univ. of Pennsylvania (United States)
- 9083 1R **Endurance bounds of aerial systems (Invited Paper)** [9083-63]
A. M. Harrington, C. M. Kroninger, U.S. Army Research Lab. (United States)
- 9083 1S **Autonomous charging to enable long-endurance missions for small aerial robots (Invited Paper)** [9083-64]
Y. Mulgaonkar, V. Kumar, Univ. of Pennsylvania (United States)

**MICRO AUTONOMOUS SYSTEMS TECHNOLOGY (MAST): POWER SOLUTIONS: JOINT SESSION
WITH CONFERENCES 9083/9084/9096**

- 9083 1T **MEMS-based and switched-capacitor approaches for miniature power supply applications (Invited Paper)** [9083-65]
S. S. Bedair, C. D. Meyer, N. Lazarus, U.S. Army Research Lab. (United States); C. Dougherty, Univ. of Florida (United States); J. S. Pulskamp, B. Morgan, R. Polcawich, U.S. Army Research Lab. (United States); X. Lin, R. Bashirullah, Univ. of Florida (United States); I. Kierzewski, J. Martin, B. Power, U.S. Army Research Lab. (United States)
- 9083 1U **Power management for small scale systems (Invited Paper)** [9083-66]
C. D. Meyer, S. S. Bedair, B. C. Morgan, U.S. Army Research Lab. (United States); X. Lin, R. Bashirullah, D. P. Arnold, Univ. of Florida (United States); I. M. Kierzewski, N. S. Lazarus, U.S. Army Research Lab. (United States)
- 9083 1V **High specific energy and specific power aluminum/air battery for micro air vehicles (Invited Paper)** [9083-67]
A. Kindler, L. Matthies, Jet Propulsion Lab. (United States)
- 9083 1W **Thermophotovoltaic and thermoelectric portable power generators (Invited Paper)** [9083-68]
W. R. Chan, Massachusetts Institute of Technology (United States); C. M. Waits, U.S. Army Research Lab. (United States); J. D. Joannopoulos, I. Celanovic, Massachusetts Institute of Technology (United States)

SELF-ASSEMBLED, BLOCK-COPOLYMER, NANO-STRUCTURES FOR ENERGY AND SENSOR APPLICATIONS

- 9083 1X **Self-assembled nanostructures as templates for patterned surfaces with non-microelectronic applications (Keynote Paper)** [9083-69]
J. Kerry, Univ. College Cork (Ireland); T. Ghoshal, M. A. Morris, Univ. College Cork (Ireland) and Trinity College Dublin (Ireland)
- 9083 1Y **Block copolymer self assembly for design and vapor phase synthesis of one-dimensional nanostructured materials (Invited Paper)** [9083-70]
A. Rahman, C. T. Black, Brookhaven National Lab. (United States)
- 9083 20 **Soft matter design principles for inorganic photonic nanoarchitectures in photovoltaics, colorimetric sensing, and self-cleaning antireflective coatings (Invited Paper)** [9083-72]
S. Guldin, Ecole Polytechnique Fédérale de Lausanne (Switzerland); U. Steiner, Univ. of Cambridge (United Kingdom)

**INNOVATIONS IN MULTIMODAL MOLECULAR PROBES: JOINT SESSION WITH CONFERENCES
9083 AND 9107**

- 9083 25 **Quantitative simultaneous PET-MR imaging (Invited Paper)** [9083-77]
J. Ouyang, Massachusetts General Hospital (United States) and Harvard Medical School (United States); Y. Petibon, Massachusetts General Hospital (United States) and Lab. d'Imagerie Biomédicale, CNRS, Univ. Pierre et Marie Curie Paris 6 (France); C. Huang, Massachusetts General Hospital (United States) and Harvard Medical School (United States); T. G. Reese, Harvard Medical School (United States) and Martinos Ctr. for Biomedical Imaging (United States); A. L. Kolnick, Massachusetts General Hospital (United States); G. El Fakhri, Massachusetts General Hospital (United States) and Harvard Medical School (United States)
- 9083 26 **The new frontiers of multimodality and multi-isotope imaging (Invited Paper)** [9083-78]
B. Behnam Azad, S. Nimmagadda, Johns Hopkins Univ. (United States)

HIGH-ACCURACY SPACE-BASED RADIOMETRY

- 9083 29 **NASA ESTO's strategic investments in space-based radiometer technology and flight validation (Keynote Paper)** [9083-81]
C. D. Norton, Jet Propulsion Lab. (United States) and NASA Goddard Space Flight Ctr. (United States); M. P. Pasciuto, NASA Goddard Space Flight Ctr. (United States)
- 9083 2A **The power of inexpensive satellite constellations (Invited Paper)** [9083-82]
L. P. Dyrud, R. La Tour, Draper Lab. (United States); W. H. Swartz, The Johns Hopkins Univ. Applied Physics Lab. LLC (United States); S. Nag, Massachusetts Institute of Technology (United States); S. R. Lorentz, L-1 Standards and Technology, Inc. (United States); T. Hilker, Oregon State Univ. (United States); W. J. Wiscombe, NASA Goddard Space Flight Ctr. (United States); S. J. Papadakis, The Johns Hopkins Univ. Applied Physics Lab. LLC (United States)
- 9083 2D **Photon filter for energetic neutral atom detectors from carbon nanotubes (Invited Paper)** [9083-85]
D. M. Deglau, D. G. Mitchell, A. H. Monica, B. Andrews, J. E. Mattson, S. J. Papadakis, The Johns Hopkins Univ. Applied Physics Lab. LLC (United States)

**NANOTECHNOLOGY FOR MILLIMETER-WAVE SENSING II: JOINT SESSION WITH CONFERENCES
9083 AND 9078**

- 9083 2G **Case study of concealed weapons detection at stand-off distances using a compact, large field-of-view THz camera (Invited Paper)** [9083-89]
L. E. Marchese, M. Terroux, D. Dufour, M. Bolduc, C. Chevalier, F. Gnreux, H. Jerominek, A. Bergeron, INO (Canada)

MICRO/NANOTECHNOLOGIES FOR LASERS AND STANDOFF DETECTION I: JOINT SESSION WITH CONFERENCES 9083/9073/9106

- 9083 2I **Ultrafast bandgap technique: light-induced semiconductor augmentation (Invited Paper)** [9083-91]
I. K. Zakharova, M. K. Rafailov, Univ. of Alberta (Canada)

MICRO/NANOTECHNOLOGIES FOR LASERS AND STANDOFF DETECTION II: JOINT SESSION WITH CONFERENCES 9083/9073/9106

- 9083 2N **Point and standoff detection of trace explosives using quantum cascade lasers (Invited Paper)** [9083-96]
S. Kim, Univ. of Calgary (Canada); D. Lee, X. Liu, C. W. Van Neste, T. Thundat, Univ. of Alberta (Canada)

POSTER SESSION

- 9083 2P **Digital level micro-fabrication for advanced optical structures** [9083-100]
D. J. Boudreau, M. Christophersen, M. K. Yetzbacher, U.S. Naval Research Lab. (United States); M. J. DePrenger, Tekla Research Inc. (United States)
- 9083 2Q **Wavelength-selective visible-light detector based on integrated graphene transistor and surface plasmon coupler** [9083-102]
C. W. Smith, D. Maukonen, R. E. Peale, C. J. Fredricksen, M. Ishigami, Univ. of Central Florida (United States); J. W. Cleary, Air Force Research Lab. (United States)
- 9083 2R **Characterization of an acoustic actuation mechanism for robotic propulsion in low Reynolds number environments** [9083-103]
C. House, J. Armstrong, J. Burkhardt, S. Firebaugh, U.S. Naval Academy (United States)
- 9083 2S **Nanoimprint-assisted directed self-assembly of low-molecular weight block copolymers: a route for 3D and multilevel nanostructures** [9083-104]
C. Simao, W. Khunsin, N. Kehagias, A. Francone, Institut Català de Nanotecnologia (Spain); M. Zelsmann, Lab. des Technologies de la Microelectronique, CNRS (France); M. A. Morris, Univ. College Cork (Ireland) and Trinity College Dublin (Ireland); C. M. Sotomayor Torres, Institut Català de Nanotecnologia (Spain) and Institució Catalana de Recerca i Estudis Avançats (Spain)
- 9083 2T **Modeling and simulation of multilayered thin films for terahertz detection** [9083-107]
M. F. Martin, U.S. Naval Academy (United States); F. Alves, Naval Postgraduate School (United States); R. A. T. Santos, Instituto Tecnológico de Aeronáutica (Brazil); D. Grbovic, Naval Postgraduate School (United States)
- 9083 2U **Novel remote sensor systems: design, prototyping, and characterization** [9083-108]
V. Kayastha, S. Gibbons, J. E. Lamb III, Brewer Science, Inc. (United States); R. E. Giedd, Missouri State Univ. (United States)

- 9083 2W **Novel graphene FETs with field-controlling electrodes to improve RF performance** [9083-110]
C. Al-Amin, R. Sinha, N. Pala, Florida International Univ. (United States); W. Choi, Univ. of North Texas (United States)
- 9083 2X **An optically resonant position read-out system for MEMS gas sensors** [9083-112]
G. Putrino, A. Keating, M. Martyniuk, L. Faraone, J. M. Dell, The Univ. of Western Australia (Australia)
- 9083 2Z **Multiplexed optical operation of nanoelectromechanical systems (NEMS) arrays for sensing and signal-processing applications** [9083-115]
A. Sampathkumar, Riverside Research Institute (United States)
- 9083 31 **Imaging quality comparison of two typical methods for imaging through turbid media** [9083-105]
X. Shao, T. Wu, C. Gong, Xidian Univ. (China)
- 9083 32 **Sensing systems using chip-based spectrometers** [9083-106]
A. Nitkowski, K. J. Preston, N. Sherwood-Droz, B. B. Behr, Tornado Spectral Systems (United States); Y. Bismilla, A. T. Cenko, B. DesRoches, J. T. Meade, E. A. Munro, J. Slaa, B. S. Schmidt, A. R. Hajian, Tornado Spectral Systems (Canada)
- 9083 33 **Graphene shield-enhancement of photosensitive surfaces and devices** [9083-111]
N. A. Moody, H. Yamaguchi, G. Gupta, A. D. Mohite, Los Alamos National Lab. (United States)

Author Index

Conference Committee

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Noriko Satake, University of California, Davis Medical Center (United States)

Sivalingam Sivananthan, University of Illinois at Chicago (United States)

Andre U. Sokolnikov, Visual Solutions and Applications (United States)

Kyung-Ah Son, HRL Laboratories, LLC (United States)

Thomas G. Thundat, University of Alberta (Canada)

Christopher C. Wilcox, U.S. Naval Research Laboratory (United States)

Session Chairs

- 1 Two-dimensional Nano-layered Systems: Graphene and Beyond
Thomas George, Zyomed Corporation (United States)
- 2 Emerging Electronic Devices/Systems Based on Adaptive and Metamaterials I
Andre U. Sokolnikov, Visual Solutions and Applications (United States)
- 3 Emerging Electronic Devices/Systems Based on Adaptive and Metamaterials II
Andre U. Sokolnikov, Visual Solutions and Applications (United States)
- 4 Graphene and 2D Electronics
Kyung-Ah Son, HRL Laboratories, LLC (United States)
- 5 1D Nanoelectronics: Nanowire and Nanotube Architecture Transistors
Muhammad M. Hussain, King Abdullah University of Science and Technology (Saudi Arabia)
- 6 MicroNano Technologies for Adaptive Optics and Beam Control
Christopher C. Wilcox, U.S. Naval Research Laboratory (United States)
Matthew E. Jungwirth, Honeywell Defense and Space Electronic Systems (United States)
- 7 MicroNano Sensor Systems for Power and Chemical Production Applications
Susan M. Maley, U.S. Department of Energy (United States)
Bilge Saruhan-Brings, Deutsches Zentrum für Luft- und Raumfahrt e.V. (Germany)
- 8 Advanced Micro/Nanotechnologies for Solar Energy Generation: Joint session with Conferences 9083 and 9115
Sivalingam Sivananthan, University of Illinois at Chicago (United States)
- 9 Mesodynamic Architectures
Ryan P. Lu, Federal Laboratory Consortium for Technology Transfer (United States)
- 10 3D Printing: An Emerging Technology for Micro/Nano Device Fabrication
Michael C. McAlpine, Princeton University (United States)
- 11 Flexible Electronics: Multifaceted Evolutions and Applications
Muhammad M. Hussain, King Abdullah University of Science and Technology (Saudi Arabia)

- 12 Micro Autonomous Systems Technology (MAST): Performance Bounds and Trade Space Studies: Joint Session with Conferences 9083/9084/9096
Christopher M. Kroninger, U.S. Army Research Laboratory (United States)
William D. Nothwang, U.S. Army Research Laboratory (United States)

- 13 Micro Autonomous Systems Technology (MAST): Power Solutions: Joint Session with Conferences 9083/9084/9096
William D. Nothwang, U.S. Army Research Laboratory (United States)
Christopher M. Kroninger, U.S. Army Research Laboratory (United States)

- 14 Self-assembled, Block-copolymer, Nano-structures for Energy and Sensor Applications
Parvaneh Mokarian-Tabari, University College Cork (Ireland)
Michael A. Morris, University College Cork (Ireland)

- 15 Innovations in Multimodal Molecular Probes: Joint Session with Conferences 9083 and 9107
Antonio Sastre, National Institutes of Health (United States)
Richard Conroy, National Institutes of Health (United States)

- 16 High-accuracy Space-based Radiometry
Stergios J. Papadakis, Johns Hopkins University Applied Physics Laboratory (United States)

- 17 Nanotechnology for Millimeter-Wave Sensing I: Joint Session with Conferences 9083 and 9078
Michael K. Rafailov, University of Alberta (Canada)

- 18 Nanotechnology for Millimeter-Wave Sensing II: Joint Session with Conferences 9083 and 9078
Michael K. Rafailov, University of Alberta (Canada)

- 19 Micro/Nanotechnologies for Lasers and Standoff Detection I: Joint Session with Conferences 9083/9073/9106
Michael K. Rafailov, University of Alberta (Canada)

- 20 Micro/Nanotechnologies for Lasers and Standoff Detection II: Joint Session with Conferences 9083/9073/9106
Michael K. Rafailov, University of Alberta (Canada)