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Contents

vii	Conference Committee
ix	Introduction

SESSION 1 SENSING CHEMICAL EXPLOSIVES

- 655403 **Micromachined microfluidic chemiluminescent system for explosives detection** [6554-02]
Y. Park, D. P. Neikirk, E. V. Anslyn, The Univ. of Texas at Austin (USA)
- 655404 **Landmine detection using passive hyperspectral imaging** [6554-03]
J. E. McFee, Defence R&D Canada Suffield (Canada); C. Anger, S. Achal, T. Ivanco, Itres Research Ltd. (Canada)
- 655405 **Stand-off Raman instrument for detection of bulk organic and inorganic compounds** [6554-04]
S. K. Sharma, A. K. Misra, P. G. Lucey, R. C. F. Lentz, C. H. Chio, Univ. of Hawaii at Manoa (USA)
- 655407 **Spectroscopic and design considerations for quartz-bound Au nanoparticle SERS substrates in chemical and biological detection** [6554-06]
W. N. Radicic, E. V. Ni, U.S. Military Academy (USA); A. W. Fountain III, U.S. Army RDECOM (USA)

SESSION 2 CHEMICAL DETECTION I

- 655408 **Field test results of standoff chemical detection using the FIRST** [6554-07]
T. S. Spisz, P. K. Murphy, C. C. Carter, A. K. Carr, Johns Hopkins Univ. Applied Physics Lab. (USA); A. Vallières, M. Chamberland, Telops, Inc. (Canada)
- 65540A **Wide-area hyperspectral chemical plume detection using parallel random sampling** [6554-09]
D. Rosario, Army Research Lab. (USA); J. Romano, Army Research, Development and Engineering Ctr. (USA)

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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.

- 65540B **Detection of simulants and degradation products of chemical warfare agents by vibrational spectroscopy** [6554-10]
O. Ruiz-Pesante, L. C. Pacheco-Londoño, O. M. Primera-Pedrozo, W. Ortiz,
Y. M. Soto-Feliciano, D. E. Nieves, M. L. Ramirez, S. P. Hernández-Rivera, Univ. of Puerto Rico
Mayagüez (Puerto Rico)
- 65540C **New developments on standoff detection of explosive materials by differential reflectometry** [6554-11]
C. Schöllhorn, A. M. Fuller, J. Gratier, R. E. Hummel, Univ. of Florida (USA)

SESSION 3 CHEMICAL DETECTION II

- 65540D **Vibrational overtone stretching transitions in trimethyl phosphite and triethyl phosphite** [6554-12]
M. W. P. Petryk, Defence Research and Development Canada Suffield (Canada)
- 65540E **Operational characteristics of LWIR AOTF based multispectral imager** [6554-13]
N. B. Singh, M. Gottlieb, D. Suhre, D. Kahler, D. J. Knuteson, A. Berghmans, B. Wagner,
J. Hedrick, T. Karr, J. J. Hawkins, Northrop Grumman Corp. (USA)
- 65540F **Investigations of intraband quantum cascade laser source for a MEMS-scale photoacoustic sensor** [6554-14]
D. A. Heaps, P. M. Pellegrino, Army Research Lab. (USA)
- 65540G **Standoff detection using coherent backscattered spectroscopy** [6554-15]
A. W. Schill, Army Research Lab. (USA); B. R. Arnold, L. A. Kelly, Univ. of Maryland, Baltimore
County (USA); P. M. Pellegrino, Army Research Lab. (USA)
- 65540H **The feasibility of a nano-interial measurement unit that uses chemistry to record position** [6554-16]
M. E. Tanner, J. M. Protz, Duke Univ. (USA)

SESSION 4 BIOLOGICAL DETECTION I

- 65540I **Biological substance characterization in water matrices with Raman microspectroscopy** [6554-17]
R. E. Jabbour, A. Tripathi, Science Applications International Corp. (USA); P. J. Treado,
J. H. Neiss, M. P. Nelson, ChemImage Corp. (USA); J. L. Jensen, A. P. Snyder, Edgewood
Chemical Biological Ctr. (USA)
- 65540J **Detection and identification of a water mixture of *E. coli* cells and *B. subtilis* spores with Raman chemical imaging microscopy** [6554-18]
A. Tripathi, R. E. Jabbour, Science Applications International Corp. (USA); P. J. Treado,
J. H. Neiss, M. P. Nelson, ChemImage Corp. (USA); J. L. Jensen, A. P. Snyder, Edgewood
Chemical Biological Ctr. (USA)
- 65540K **Spectroscopic characterization of biological agents using FTIR, normal Raman, and surface-enhanced Raman spectroscopies** [6554-19]
T. Luna-Pineda, K. Soto-Feliciano, E. De La Cruz-Montoya, L. C. Pacheco Londoño,
C. Ríos-Velázquez, S. P. Hernández-Rivera, Univ. of Puerto Rico Mayagüez (Puerto Rico)

- 65540L **High sensitivity detection of bacteria by surface plasmon resonance enhanced common path interferometry** [6554-20]
C. Greef, V. Petropavlovskikh, O. Nilsen, B. Hacıoglu, B. Khattatov, AlphaSniffer, LLC (USA); J. Hall, Hall Stable Lasers, LLC (USA)
- 65540M **A study of spore identification from diffraction data** [6554-21]
T. Le, Y. Cao, M. A. Fiddy, Univ. of North Carolina at Charlotte (USA); P. Gardner, Univ. of North Carolina at Charlotte (USA) and Detection Systems, General Dynamics Armament and Technical Products (USA)
- 65540N **Noninvasive forward-scattering system for rapid detection, characterization, and identification of bacterial colonies** [6554-22]
B. Rajwa, B. Bayraktar, P. P. Banada, K. Huff, E. Bae, E. D. Hirtleman, A. K. Bhunia, J. P. Robinson, Purdue Univ. (USA)
- 65540O **Compact chamber for the spectroscopic analysis of fluorescent aerosols** [6554-23]
B. Déry, Defence R&D Canada Valcartier (Canada) and Univ. Laval (Canada); J.-R. Simard, Defence R&D Canada Valcartier (Canada); R. Vallée, Univ. Laval (Canada); G. Roy, H. Lavoie, S. Buteau, Defence R&D Canada Valcartier (Canada)
- 65540P **Developments in on-the-fly biomarking: a new method to rapidly identify chemical and biological aerosols** [6554-24]
M. B. Hart, H.-B. Lin, J. Deich, C. D. Merritt, J. D. Eversole, Naval Research Lab. (USA)
- 65540Q **Extinction and backscatter cross sections of biological materials** [6554-25]
M. E. Thomas, M. B. Airola, C. C. Carter, N. T. Boggs, Johns Hopkins Univ. Applied Physics Lab. (USA)
- 65540R **Field testing results and ambient aerosol measurements using a dual-wavelength fluorescence excitation and elastic scatter for bio-aerosols** [6554-26]
V. Sivaprakasam, A. Huston, H. B. Lin, J. Eversole, P. Falkenstein, A. Schultz, Naval Research Lab. (USA)
- 65540S **Hyperspectral exploitation with plant sentinels** [6554-27]
A. K. Shaw, Gitam Technologies, Inc. (USA) and Wright State Univ. (USA); J. Medford, M. Antunes, Colorado State Univ. (USA); W. S. McCormick, Gitam Technologies, Inc. (USA) and Wright State Univ. (USA); D. Wicker, Air Force Research Lab. (USA)

SESSION 5 BIOLOGICAL DETECTION II

- 65540T **Spectrally resolved fluorescence cross sections of BG and BT with a 266-nm pump wavelength** [6554-28]
J. Atkins, M. E. Thomas, R. I. Joseph, Johns Hopkins Univ. (USA)
- 65540V **Detection and classification of atmospheric aerosols using multi-wavelength CO₂ lidar** [6554-30]
R. E. Warren, EO-Stat, Inc. (USA); R. G. Vanderbeek, U.S. Army Edgewood Chemical Biological Ctr. (USA)
- 65540W **Bayesian probabilistic approach for inverse source determination from limited and noisy chemical or biological sensor concentration measurements** [6554-31]
E. Yee, Defence R&D Canada Suffield (Canada)

- 65540Z **Investigation of synthetic molecular recognition for biosensing applications** [6554-34]
D. N. Stratis-Cullum, S. McMasters, L. J. Sooter, P. M. Pellegrino, Army Research Lab. (USA)
- 655410 **Recent testing and performance improvements of a fluorescence-based biological aerosol sensor** [6554-35]
B. K. Dable, G. A. Wilson, J. Brady, M. M. Carrabba, Hach Homeland Security Technologies (USA)

Author Index

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Session Chairs

- 1 Sensing Chemical Explosives
Augustus W. Fountain III, U.S. Army RDECOM ECBC (USA)
- 2 Chemical Detection I
Paul M. Pellegrino, Army Research Laboratory (USA)
- 3 Chemical Detection II
Christopher C. Carter, Johns Hopkins Applied Physics Laboratory (USA)

- 4 Biological Detection I
Jerome J. Braun, MIT Lincoln Laboratory (USA)
- 5 Biological Detection II
Michael W. P. Petryk, Defence Research and Development Canada
Suffield (Canada)

Introduction

This year we experienced the natural evolution of the conference by expanding our interest in chemical sensing of explosives in defense and security applications. The detection of explosives, as well as their precursor and residual chemicals, is a critical technology that allows us to identify threats and from where or whom they emanate. Further development of this technology will benefit not only our troops abroad, but our security and law enforcement forces at home.

Of particular interest to members of SPIE and attendees of this conference is that the underlying science and technology involved in sensing explosives and energetic chemicals is similarly applicable to the detection of chemical and biological warfare agents, toxic industrial chemicals or materials (TICs/TIMs), or other potential environmental hazards. Therein lies the strength and importance of the SPIE's Defense and Security Symposium. This symposium and particularly this conference provide an unprecedented forum for authors from government, industry, and academia to gather and address a wide variety of sensing issues and technologies. The authors presented in this conference represent nearly an equal one-third partition amongst those groups.

I want to take this time to particularly thank the members of the program committee for helping me plan, organize, and orchestrate this year's conference. They each work behind scenes all year long to make this conference not only possible, but truly a first-rate affair. Whether they come from government laboratories, industry, or academia they bring a tremendous amount of energy and professionalism to help me pull this conference off.

I learned a tremendous amount by reading and editing each of these papers, as well as attending each of their presentations. I hope that you, the reader, find value as well in these proceedings from this year's conference.

Augustus W. Fountain III