様式第 4-2 号（国内学会用）

Report Form (Cover Sheet)

実　績　報　告　書

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平成　　年　　月　　日

（公財）会津地域教育･学術振興財団

理 事 長　　宮　森　泰　弘　　様

Major
所属学科等　コンピュータ・情報システム学専攻

Name
氏　　名　ＸＸＸ　ＸＸＸ　　　印

Phone # & Email Address
連　絡　先　0242（xx）xxxx、m52xxxxx

1　Brief overview of the Conference
学会参加実績の概要

別紙のとおり Please see the accompanying sheet (Description form)

2.　Accompanying sheet
添付書類

(1) 実施報告書（別紙）

(2) 学会参加がわかる書類

（自分の論文発表時の状況、質疑応答の内容等を含め学会の様子を記載したレポート）

(1) Report form (Accompanying sheet)
(2) Others
(a)　Photos of your presentation
(b)　A photocopy of handouts distributed at the Conference

Description Form (Accompanying Sheet)

実績報告書　（別紙）

（公財）会津地域教育･学術振興財団
　理 事 長　　宮　森　泰　弘　　様

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Brief overview of the Conference
【概要】

Provide a brief overview of the Conference in Japanese in **ONE PAGE**.

CSE2011（第33回ソフトウェアエンジニアリング学会が、平成２３年ＸＸ月ＸＸ日（Ｘ）からＸＸ日（Ｘ）の日程で、ＸＸで開催されました。この学会はＸＸが主催する最大の学会で、ＸＸＸＸなどの分野における最新の研究についての知見の交換等を目的としています。

私は、この学会に出席し、「Security Testing Methods and Its system to Mobile Code（モバイルコードのテスト装置及びテスト手法)」という題目で口頭発表を行いました。本研究の目的は、ウェブアプリケーション（ウェブサイト）におけるモバイルコードの脆弱性を自動検知することが可能なモバイルコードテスト装置、モバイルコードテスト方法およびモバイルコードテスト用プログラムを提供することを課題としています。

口頭発表後の質疑応答では、参加者との議論を行い、「ＸＸＸＸＸ」といった意見や、「ＸＸＸＸＸ」のアドバイスなどがあり、発表内容は概ね好評であったと思います。

また、多様な国々の研究者や技術者と意見を交換し、議論する機会があり、多くのことを学ぶ機会となりました。

今後、本学会に出席し得られた成果を、自らの研究に生かすため励んでいきたいと考えています。そして、会津地域におけるＩＴ産業に貢献すべく、より一層の研究、開発を進めていきたいと思います。

Photo(s) of your presentation

Photocopy of handouts distributed at the Conference

(e.g.) Photocopy of the Conference program
<NOTE> Please **HIGHLIGHT you name**.

Room 318-320	Room 321-323	Room 324-326	Room 314
CLEO: QELS-Fundamental Science	**CLEO: Science & Innovations**		

07:30–12:00 Registration Open, *Baltimore Convention Center, Pratt Street, 300 Level Lobby*

08:00–09:45 QFA • Plasmonic Metamaterials
Gennady Shvets, The Univ. of Texas at Austin USA, Presider

QFA1 • 08:00
Multi-Spectral Plasmon Induced Transparency with Hybridized Metamaterials, *Alp Artar[1], Ahmet A. Yanik[1], Hatice Altug[1]; [1]Electrical and Computer Engineering, Boston Univ., USA.* We propose and demonstrate a scheme enabling construction of a scalable metamaterial supporting multi-spectral electromagnetically induced transparency-like effects through hybridization of coupled meta-atoms. Tailoring of intra- and inter-layer near-field interactions give rise to the discussed phenomenon.

QFA2 • 08:15
Towards 3D plasmon rulers, *Na Liu[1], Mario Hentschel[2], Thomas Weiss[2], Harald Giessen[2], A. Paul Alivisatos[1]; [1]Department of Chemistry, Univ. of California, Berkeley, and Materials Sciences Division, Lawrence Berkeley National Lab, USA; [2]4th Physics Inst., Univ. of Stuttgart, Germany.* We demonstrate a prototype 3D plasmon ruler based on coupled plasmonic oligomers in combination with high-resolution plasmon spectroscopy, rendering the retrieval of the complete spatial configuration and dynamics of complex macromolecules possible.

QFA3 • 08:30
Fano Resonances in Reduced Symmetry Metamaterials, *Chihhui Wu[1], Alexander B. Khanikaev[1], Nihal Arju[1], Burton Neuner[1], Gennady Shvets[1]; [1]Physics, UT Austin, USA.* We demonstrate the Fano resonance in reduced symmetry metamaterials with both inversion symmetry being broken. Experimental results are presented and demonstrate the onset of Fano resonances.

QFA4 • 08:45
Maxwell Fisheye and Eaton Lenses Emulated by Microdroplets, *Igor Smolyaninov[1], Vera Smolyaninova[2], Alexander Kildishev[3], Vladimir Shalaev[3]; [1]Univ. of Maryland, USA; [2]Department of Physics Astronomy and Geosciences, Towson Univ., USA; [3]Purdue Univ., USA.* We demonstrate that microlenses may act as a two-dimensional fisheye or an inverted Eaton lens. An asymmetric Eaton lens may exhibit considerable image magnification, which has been confirmed experimentally.

08:00–09:45 CFA • Optomechanics II
Kartik Srinivasan, NIST, USA, Presider

CFA1 • 08:00
Full Phononic Bandgap in 2D-Optomechanical Crystals, *Thiago P. Mayer Alegre[1], Amir H. Safavi-Naeini[1], Martin Winger[1], Oskar Painter[1]; [1]Thomas J. Watson, Sr., Lab of Applied Physics, California Inst. of Technology, USA.* We demonstrate simultaneous strong confinement and interaction of photons and phonons in a quasi two-dimensional (2D) slab.

CFA2 • 08:15
Low Power Resonant Optical Excitation of an Optomechanical Cavity, *Yiyang Gong[1], Armand Rundquist[1], Arka Majumdar[1], Jelena Vuckovic[1]; [1]Electrical Engineering, Stanford Univ., USA.* We demonstrate the actuation of a double beam optomechanical cavity with a sinusoidally varying optical input power. We observe the driven mechanical motion with only 200 nW coupled to the optical cavity mode.

CFA3 • 08:30
Optomechanically-coupled Fishbone-shaped Double-beam Nanoresonators, *Seung Hoon Lee[1], Jong-Bum You[1], Jee Soo Chang[1], Yong-Hee Lee[2], Seung S. Lee[1], Kwang-Cheol Lee[3], Bumki Min[1]; [1]Department of Mechanical Engineering, Korea Advanced Inst. of Science and Technology (KAIST), Republic of Korea; [2]Department of Physics, Korea Advanced Inst. of Science and Technology (KAIST), Republic of Korea; [3]Korea Research Inst. of Standards and Science, Republic of Korea.* We demonstrate gradient-force-induced mechanical oscillations in optomechanically-coupled fishbone-shaped double-beam nanocavities. Details in design, fabrication, and measurement will be discussed.

CFA4 • 08:45
Optomechanical coupling in slot-type photonic crystal cavities, *Ying Li[1], Jiangjun Zheng[1], Hung-Bing Tan[1], Mehmet Aras[1], A. Stein[2], Jie Gao[1], Jing Shu[1], Chee Wei Wong[1]; [1]Optical Nanostructures Lab, Columbia Univ., USA; [2]Brookhaven National Lab, USA.* We demonstrate a strong optomechanical coupling air-slot photonic crystal cavity (g_{om}=940GHz/nm). Optical and mechanical measurements are shown. Radio-frequency spectrum is obtained theoretically and experimentally.

08:00–09:45 CFB • Integration on Silicon
Amir Nejadmalayeri, MIT, USA, Presider

CFB1 • 08:00 Tutorial
Lasers on Silicon, John E. Bowers, *Univ. of California at Santa Barbara, USA.* A number of important breakthroughs in the past decade have focused attention on Si as a photonic platform. We review here recent worldwide progress in this field, focusing on efforts to make lasers on or in silicon and on silicon photonic integrated circuits. The impact active silicon photonic integrated circuits could have on data and telecommunications and on silicon electronics is reviewed.

John Bowers holds the Fred Kavli Chair in Nanotechnology, and is the Director of the Inst. for Energy Efficiency and a Professor in the Department of Electrical and Computer Engineering at UCSB. He is a cofounder of Aurrion, Aerius Photonics and Calient Networks. Dr. Bowers received his M.S. and Ph.D. degrees from Stanford Univ. and worked for AT&T Bell Laboratories and Honeywell before joining UC Santa Barbara. Dr. Bowers is a member of the National Academy of Engineering, a fellow of the IEEE, OSA and the American Physical Society, and a recipient of the OSA Holonyak Prize, the IEEE LEOS William Streifer Award and the South Coast Business and Technology Entrepreneur of the Year Award. He has published eight book chapters, 450 journal papers, 700 conference papers and has received 52 patents. He and coworkers received the EE Times Annual Creativity in Electronics (ACE) Award for Most Promising Technology for the hybrid silicon laser in 2007.

08:00–09:45 CFC • Optical Frequency Standards and Signal Dissemination
Chad Hoyt, Bethel Univ., USA, Presider

CFC1 • 08:00
Portable Acetylene Frequency References inside Sealed Hollow-core Kagome Photonic Crystal Fiber, *Chenchen Wang[1], Natalie V. Wheeler[2], Jinkang Lim[1], Kevin Knabe[1], Michael Grogan[2], Yingying Wang[2], Brian R. Washburn[1], Fetah Benabid[2], Kristan L. Corwin[1]; [1]Physics, Kansas State Univ., USA; [2]Physics, Univ. of Bath, UK.* A continuous-wave diode laser is stabilized to a near-infrared acetylene transition inside a sealed kagome photonic crystal fiber. Stability and absolute frequency are measured with a frequency comb, and polarization sensitivity is observed.

CFC2 • 08:15
Progress of the 171Yb Optical Lattice Clock at NMIJ, AIST, *Masami Yasuda[1,2], Takuya Kohno[1,2], Kazumoto Hosaka[1,2], Hajime Inaba[1,2], Yoshiaki Nakajima[1,2], Daisuke Akamatsu[1,2], Kana Iwakuni[1,4], Feng-Lei Hong[1,2]; [1]NMIJ, AIST, Japan; [2]CREST, JST, Japan; [3]Fukui Univ. of Technology, Japan; [4]Keio Univ., Japan.* Experimental efforts to reduce the uncertainty of the ytterbium (171Yb) optical lattice clock at NMIJ, AIST are shown. The signal-to-noise ratio of the spectrum was increased by 10 times by an atom number normalization scheme.

CFC3 • 08:30
Precision Calculation of Blackbody Radiation Shifts for Metrology at the 18th Decimal Place, *Marianna Safronova[1], Mikhail Kozlov[2], Charles W. Clark[3]; [1]Physics and Astronomy, Univ. of Delaware, USA; [2]PNPI, Russian Federation; [3]JQI, NIST and the Univ. of Maryland, USA.* We present a new approach for accurate calculation of atomic polarizabilities, apply it to evaluate BBR shifts in optical clock transitions in Al , B and In , and find uncertainties below 10^{-18} in some cases.

CFC4 • 08:45
Optical direct comparison of two ^{87}Sr lattice clocks using a >50km fiber link, *Tetsuya Ido[1], Miho Fujieda[1], Atsushi Yamaguchi[1], Motohiro Kumagai[1], Hidekazu Hachisu[1], Shigeo Nagano[1], Tetsushi Takano[2], Masao Takamoto[2], Hidetoshi Katori[2]; [1]Natinal Inst. of Information and Communictions Technology, Japan; [2]Univ. of Tokyo, Japan.* >50km optical fiber link connecting NICT and Univ. of Tokyo has enabled direct comparison of ^{87}Sr lattice clocks locating in each site. Transmission instability 2×10^{-14}@1s unveils sub-10Hz fluctuations of recently developed NICT clock.