# CEWIT2015

## The 12th International Conference and Expo on Emerging Technologies for a Smarter World

### October 19-20 • Melville Marriott

# PROGRAM

**Center of Excellence**
WIRELESS AND INFORMATION TECHNOLOGY
AT STONY BROOK UNIVERSITY

SUNY Korea
The State University of New York

## The 12th International Conference & Expo on Emerging Technologies for a Smarter World

This is the 12th International Conference and Expo on Emerging Technologies organized by the Center of Excellence in Wireless and Information Technology (CEWIT) at Stony Brook University. Our major sponsors of this year's conference include CA Technologies, Softheon, Zebra Technologies, Henry Schein, Inc., Hoffmann & Baron, LLP, Northrop Grumman Corporation, SVAM International Inc., and MATIMOP – The Israel Industry Center for R&D. The Conference is co-hosted by Stony Brook University, SUNY Korea, and CEWIT Korea.

The Conference has gained international recognition as one of the premier conferences on the development and application of emerging technologies and for bringing together academic research and industry innovation at a single forum. This year's conference features ten sessions including: Big Data Architecture and Analytics; Health Technologies and Medical Devices; Information Technology and Society; Smart Energy and Urban Systems; Cybersecurity; and the Internet of Things; as well as three special panels on the Entrepreneur's Toolkit and Funding, Trends in Venture Capital, and New York State Funded Resources for Entrepreneurs. We have also organized Big Data and Data Science Tutorial Workshops on Python Data Analytics and R Machine Learning as well as International Business to Business networking featuring delegations from Israel and Korea. Through this conference, we aim to disseminate research findings and innovative solutions to major technical challenges in developing a smarter global environment.

CEWIT is a next generation research and educational facility, whose mission is three-fold: become recognized as a world leader in interdisciplinary research in emerging, critical technologies of the information age; address the skilled technology worker shortage; and foster new enterprise development. It is critical for those who are engaged in IT research to build strategic alliances and business partnerships among the academic, scientific, and business communities. Working with other organizations, technology commercialization activities can be formulated to help drive economic growth worldwide by quickly moving technologies from research labs to the marketplace.

IT is still not a mature technology and we expect the rapid advances of the last several decades to continue and increase thousand folds in many fields. Thus, IT will continue to create new and highly profitable businesses that we have not even imagined. Computational chemistry and biology, grid computing, tying far flung supply chains, and even e-commerce, etc. are at the beginning of their creation. Within the so-called "Internet of Things," sensors are being embedded in devices ranging from smartphones, automobiles, and utility meters to assembly lines, warehouses, and hospitals to capture data in real time.  Hundreds of millions of users around the globe now contribute new data, generating new knowledge and collaboration on new innovations using the Internet.
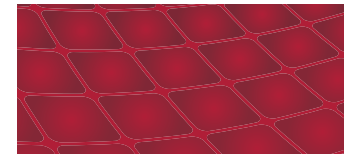
The conference this year hosts a wide range of high-caliber speakers, including leading researchers, technologists, executives and policy makers, and a broad international audience. This conference has attracted authors and participants from all over the world, from academic institutions, industry, and government institutions. The conference program features more than 130 oral and poster presentations, including many leading research and industry experts. It also provides networking opportunities for individuals engaged in research, development, and commercialization of technologies.

My heartiest congratulations to all authors and welcome to all participants.

— *Satya P. Sharma, PhD, MBA*
  *Executive Director, The Center of Excellence in Wireless and Information Technology (CEWIT)*

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Manager

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**Center of Excellence**
WIRELESS AND INFORMATION TECHNOLOGY
AT STONY BROOK UNIVERSITY

**Stony Brook University**

**www.cewit.org**

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## CEWIT2015 Program Committee

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**Nancy L. Zimpher**
Chancellor

State University Plaza
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**The State University
of New York**

October 2015
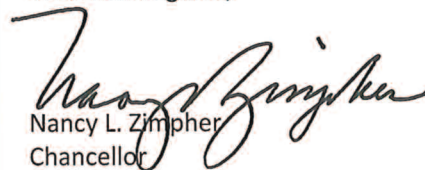
To our Fellow Conference-goers, Innovators, and Friends,

It is a great pleasure to be here to participate in the *CEWIT2015* Conference & Expo on Emerging Technologies for a Smarter World. Stony Brook University's Center of Excellence in Wireless and Information Technology has been a designated state COE for more than a decade—and for that fact and CEWIT's groundbreaking work SUNY could not be more proud.

The State University of New York has a strong history of leading research and technology innovation felt the world over. Remarkably, research at SUNY produces more than 200 new technologies every year—and more than ever, we're striving to broaden and deepen that footprint for the betterment of New York State and beyond.

SUNY faculty, students, and staff are performing life-changing research in life sciences and medicine; engineering and nanotechnology; physical sciences and energy; social sciences; and computer and information sciences. Moreover, over the last two years, building on the unmatchable capacity of our system to drive change as a whole, we have been working to stimulate research growth by facilitating intercampus and interdisciplinary collaboration through our burgeoning Networks of Excellence. This program includes six system-wide networks—SUNY 4E (Energy, Environment, Economics, Education), SUNY Health, SUNY Brain, SUNY Materials & Advanced Manufacturing, SUNY Arts & Humanities, and SUNY Teaching, Learning, and Assessment)—covering the most cutting-edge fields and their various critical intersections. These networks have so far funded workshops and seed grants that have allowed teams to begin to work together to solve some of today's biggest problems.

I have every confidence that the activities, presentations, and conversations of these two days will massively contribute to Stony Brook University's and SUNY's efforts in advancing technology in service of New York and humankind. I look forward to the opportunity to connect with you and to hear about the latest breakthroughs and plans for what is next, what is possible.

With best regards,

Nancy L. Zimpher
Chancellor

To Learn
To Search
To Serve

the Power of SUNY

October 2015

Welcome to CEWIT2015, the 12th International Conference & Expo on Emerging Technologies for a Smarter World.
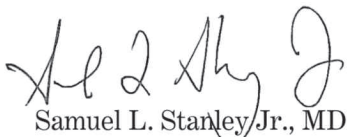
This conference has come a long way in a short time. In a little more than a decade, the New York State Center of Excellence in Wireless and Information Technology (CEWIT) at Stony Brook University has created the premier conference for advancing technological innovations, and in the process has helped to shape our future. It features more than 100 world-renowned presenters, nearly 70 academic and industry experts in nine sessions, 16 distinguished panelists, three keynotes and more than 600 attendees from 15 countries.

This year's program showcases the immense creative potential of partnership between higher education and industry. For example, Stony Brook's Peter Donnelly, director of the Office of Technology Licensing and Industry Relations, will share lessons learned from the University's ongoing commitment to collaboration with business. The attendance of a large delegation from Korea — where conference co-host SUNY Korea shares resources and ideas with Stony Brook University in a unique collaborative venture — highlights the international reach of our endeavors.

Special thanks to conference co-chairs Rong Zhao, director of CEWIT's Software Systems Division, and Shmuel Einav, professor of biomedical engineering and director of CEWIT's Medical Technologies Division. Their joint leadership underscores the close relationship between academic research and groundbreaking medical technology. The participation of Stony Brook healthcare innovators such as Craig Lehmann, dean of the School of Health Technology and Management, and Wei Lin, associate professor of biomedical engineering, among others, sheds light on the critical role of high-tech research in the future of medicine.

Virtually everything we do is dependent on information technology. It is up to us — as a university, as researchers, as scientists, as business innovators and as citizens of this ever-changing planet — to pursue every opportunity to advance Big Data and networked knowledge far beyond what we've known to be possible.

It is my hope that during the next two days you and your colleagues will make connections, collaborate productively and push your fields toward a future that will benefit all of us.

Samuel L. Stanley Jr., MD
President

SUNY    The State University of New York

| 8:00 AM | REGISTRATION OPEN IN MAIN LOBBY |
| --- | --- |

| | TRACK A | TRACK B | TRACK C | TRACK D |
| --- | --- | --- | --- | --- |

### TRACK A — Big Data Analytics and Visualization

**MORNING SESSION 9:00 AM – 10:15 AM**

**Steve Yang**
*Stevens Institute of Technology*
Twitter Financial Community Sentiment and its Predictive Power to Market Movement

**Stephen Adams**
*University of Virginia*
Cost and Machine Learning: An Application to Feature Selection for Hidden Markov Models

**Pravin Chopade**
*North Carolina A&T State University*
Real-Time Large-Scale Big Data Networks Analytics and Visualization Architecture

**Margaret Schedel**
*Stony Brook University*
The Data Sensorium: Multimodal Exploration of Scientific Data Sets

**Alberto Garcia Robledo**
*Cinvestav-Tamaulipas*
Exploring the Feasibility of Heterogeneous Computing of Complex Networks for Big Data Analysis

**Paul Fodor**
*Stony Brook University*
EP-SPARQL Complex Event Stream Processing System and its Applications

### TRACK B — Health Technologies and Medical Devices

**Craig Lehmann**
*Stony Brook University*
Technology Innovation Reduces Medication Errors

**Eyal Bartfeld**
*Irody Inc.*
Bringing the Most Common Health Intervention to the Digital Age Using Smart Phones

**Wei Lin**
*Stony Brook University*
Dynamic Authentication of Wearable Devices in Medical Applications

**Aydin Farajidavar**
*New York Institute of Technology*
Integrated Wireless Solutions for Managing Gastrointestinal Disorders

**Russ Saypoff**
*American Access Care*
Automated Medical Diagnostic Interpretation

**Teresa Piliouras**
*Technical Consulting & Research, Inc.*
The Rise of Mobile Health Technology: The Challenge of Securing Teleradiology

**Chris Gaur,
Mary Jean McKeveny**
*Vital Care Telehealth Services, Dominican Sisters Family Health Service*
Total Population Management Demonstration Model for Vulnerable Communities by Use of Interoperable Digital Health Solutions

### TRACK C — Cybersecurity

**Arturo Diaz**
*Cinvestav-Tamaulipas*
A Digital Envelope Scheme for Document Sharing in a Private Cloud Storage

**Warren Axelrod**
*Delta Risk, LLC*
Ensuring Online Data Privacy and Controlling Anonymity

**Roshan Shaikh**
*AiSoft, Inc.*
Predicting and Protecting Cross Site Request Forgery Attacks on Contemporary Web Applications

**Sanjeev Kumar Marimekala**
*IBM Research*
Security Challenges and Data Implications by using SmartWatch devices in the Enterprise

**P A N E L**

Moderated by
**Long Lu**
*Stony Brook University*

**Roxana Geambasu**
*Columbia University*
Increasing Privacy in a Data-Driven World

**Roberto Perdisci**
*University of Georgia*
Investigating, Categorizing, and Mitigating Malware Download Paths

**Georgios Portokalidis**
*Stevens Institute of Technology*
What You Scan Is Not What I Visit - Bypassing Safe Browsing Lists

### TRACK D — Entrepreneur's Toolkit I: Funding 101

**Anthony Bennett**
*Hoffmann & Baron, LLP*
Maintaining Your Edge in Intellectual Property

**Lori Hoberman**
*Hoberman Law Group*
Positioning Your Company for Fundability

**Alon Kapen**
*Farrell Fritz*
Considerations to Taking an Equity Investment

**P A N E L**

Moderated by
**Frank Chau**
*F. Chau & Associates, LLC*

**Jeffrey Bass**
*Executive Strategies Group LLC*

**Gary Kane**
*Chimera Strategies LLC*

**Neil Kaufman**
*Abrams Fensterman Law*

Pitch Clinic:
Charmtech Labs;
Coalytics; FlightPartner;
POEM Technology;
Additional Companies
To Be Announced

**BREAK: ATRIUM SHOW FLOOR 10:15 AM – 10:45 AM**

**MORNING SESSION 10:45 AM – 12:00 PM**

**1:00 PM - 2:15 PM**

**LUNCHEON AND SPEAKERS**
Satya Sharma • **Executive Director, Center of Excellence in Wireless and Information Technology** • *Welcoming Remarks*
**Harry L. Leider, MD, MBA** • **Chief Medical Officer, Walgreen Company**
*Keynote: Digital Health — Where is Value Created and Who Will Pay?*

|  | TRACK A | TRACK B | TRACK C | TRACK D | TRACK E |
|---|---|---|---|---|---|
| **AFTERNOON SESSION 2:30 PM - 3:45 PM** <br><br> **BREAK: ATRIUM SHOW FLOOR 3:45 PM - 4:15 PM** <br><br> **AFTERNOON SESSION 4:15 PM - 5:30 PM** | **Big Data Analytics and Visualization** <br><br> **Kerstin Kleese van Dam** <br> *Brookhaven National Laboratory* <br> Streaming Data Analysis and Decision Making in Big Data Environments <br><br> **Ye Zhao** <br> *Kent State University* <br> Visually Studying Urban Mobility Patterns from Taxi Trajectory Data <br><br> **Dimitris Metaxas** <br> *Rutgers University* <br> Large Scale Analytics for Medical Applications <br><br> **Claudio Silva** <br> *New York University* <br> Big Data Platforms for Urban Data <br><br> **Amitabh Varshney** <br> *University of Maryland* <br> Revealing Patterns in the Injured Brain <br><br> **Lyublyana Turiy** <br> *Long Island University* <br> Classification of Research Efforts in Big Data Analytics | **Internet of Things** <br><br> **Songtao Guo** <br> *Southwest University* <br> Spectral Partitioning Based Energy-Efficient Clustering Algorithm for Wireless Sensor Networks <br><br> **Emre Salman** <br> *Stony Brook University* <br> A New Circuit Design Framework for IoT Devices <br><br> **Andreas Timm-Giel** <br> *Hamburg University of Technology* <br> Reliable Sensor Networks for Medical Applications <br><br> **Ramachandran Muralidhar** <br> *IBM T.J. Watson Research* <br> A Robust Low-cost and Robust Sensor for Smart Particulate Sensing for PM2.5 Applications <br><br> **Helmut Strey** <br> *Stony Brook University* <br> Measuring Social Networks Using Proximity Sensors <br><br> **Doug Kim Ashley Hong** <br> *Farmingdale State University* <br> Object Association and Identification through RFID Cluster Collaboration <br><br> **Xiaotie Deng** <br> *Shanghai Jiaotong University* <br> Can Bandwidth Sharing be Truthful? | **Smart Energy and Smart Urban Systems** <br><br> **Fan Ye** <br> *Stony Brook University* <br> Algorithms for Automatic Map Construction of Large Parking Structures <br><br> **Masashi Sugano** <br> *Osaka Prefecture University* <br> Elemental Technologies for Realizing Fully-controlled Artificial Light-type Plant Factory <br><br> **Sarena Maeda** <br> *ISI Dentsu* <br> Participatory Discovery Towards 2020 <br><br> **Jing Pang** <br> *California State University, Sacramento* <br> Review of Microcontroller Based Intelligent Traffic Light Control <br><br> **Mark Yedlin** <br> *Greenman-Pedersen, Inc.* <br> Modeling New York City's Revolutionary Transit Signal Priority Program <br><br> **Chankook Park** <br> *Korea Energy Economics Institute* <br> The Outlook of Applying "Internet of Things" to the Energy Sector by Text-mining <br><br> **Zhihao Hong** <br> *University of Illinois* <br> A Data-driven Approach to Soil Moisture Collection and Prediction | **Trends in Venture Capital and is There Another Way?** <br><br> **P A N E L** <br><br> Moderated by **Michael Faltischek** <br> *Ruskin Moscou Faltischek P.C.* <br><br> Entrepreneurship and Venture Capital **David Calone** <br> *Jove Equity Partners* <br><br> **Andrew Hazen** <br> *Angel Dough Ventures* <br><br> **Lori Hoberman** <br> *Hoberman Law Group* <br><br> .......... <br><br> Chaired by **Frank Chau** <br> *F. Chau & Associates, LLC* <br><br> **Brian McAuliff** <br> *Bri-Tech, Inc.* <br> Succeeding Without Venture Capital Entrepreneurship Success Story <br><br> **Lawrence Weber** <br> *Stony Brook University* <br> Role and Elements of a License, a Technology Business Man's Perspective <br><br> **Frank Fountain** <br> *Rothbell & Fountain Lawyers* <br> Raising Capital Through Immigrant Investors: U.S. EB-5 Program | **VENTure eVENT Information Tech and Communication Access for Vent-Users** <br><br> **Brooke Ellison** <br> *Stony Brook University* <br> VENTure Think Tank <br><br> **Dan Lorence** <br> *Stony Brook University* <br> Telehealth and Online Advocacy Networks: New Healthcare Alternatives For the Disabled <br><br> **Craig Beale** <br> *Stony Brook University* <br> The Speech-Language Pathologists' Role in Assistive Technology for Communication <br><br> **Chelsea King** <br> Developing an Individual Communication Strategy as a Ventilator User: Chelsea R. King's Experience <br><br> **Jennifer Noronha** <br> *Henry Viscardi School* <br> Use of Technology to Improve Quality of Life In Vented Patients <br><br> **Pramod Gaur** <br> *Pace University* <br> Use of Interoperable Telehealth Technology to Customize Clinical and Social Care Workflow Driven Use Cases <br><br> **Round Table Discussion** <br> Moderated By **Pamela Block** <br> *Stony Brook University* <br> Vent-users, Family Members Clinical, Technology and Research Specialists |

**5:30 PM - 7:00 PM** | **ENHANCED RECEPTION AND ATRIUM SHOWFLOOR** • **Exhibitor and Poster Sessions**

# TUESDAY • OCTOBER 20

**8:00 AM** | **CONTINENTAL BREAKFAST AND ATRIUM SHOWFLOOR** • Exhibitor and Poster Sessions

| | TRACK A | TRACK B | TRACK C | TRACK D | TUTORIALS |
|---|---|---|---|---|---|
| | **Information Technology and Society** | **Health Technologies and Medical Devices** | **Emerging Technologies** | **Entrepreneur's Toolkit II: How Investors Think. New York State Funded Resources for Entrepreneurs** | **Session I 9:00 AM-12:00 PM Python Data Analytics** NumPy • Pandas Matplotlib • SciPy |
| **MORNING SESSION 9:00 AM - 10:15 AM** **BREAK: ATRIUM SHOW FLOOR 10:15 AM - 10:45 AM** **MORNING SESSION 10:45 AM - 12:00 PM** | **Debra Dwyer** *Stony Brook University* Identity Crisis in Teens: Role of Technology Addiction **Melvin Greer** *Lockheed Martin* Convergence: A Transformative Approach to Advanced Research at the Intersection of the Life, Physical and Engineering Sciences **Stephanie White** *Long Island University* Understanding Transformation in Cyber-Human Systems **John Lamb** *Pace University* IBM Research STEM and Green IT **Michael Ohayon** *Webair* Managing Remote Operations Teams **David Ecker** *Stony Brook University* Ideas and Innovation at Stony Brook **Jose Rene Tubilleja** *Long Island University* Security Issues Surrounding the Use of Open Source Software by Online Students | **Janos Hajagos** *Stony Brook University* Challenges for Healthcare Data Analytics in the EHR Era **Eliot Siegel** *University of Maryland* Practical Applications and Pitfalls Of 'Big Data' For Decision Support In Medical Imaging and Informatics **Oren Fuerst** *Eco Fusion and Medivizor* Converting Visions into Reality in a Mobile Era **Victor Levy** *E Physicians Office, Inc.* Customized EHR Analytics Systems: Clinicians Using Bayesian Probabilistic Algorithms to Create Actionable Applications **Louis Gagliano** *Pathogen Technologies Corporation* Hospital Based Solution to Achieve Higher Airborne Pathogen Killing Ratios **Koji Miyamoto** *Toshiba Corporation* Wearable Sensors Corresponding to Various Applications in Healthcare Field **Alex Hyungkyu Kwon** *Kyungsung University* Neuro-diagnostic Brain Checklist Development for Learning on Dynamic Cognitive Development of Abstractions | **Tao Wang** *Peking University* GRT v1.1: A Novel SDR Platform for Full-Duplex WiFi **Zuoting Chen** *Stony Brook University* Fast Pipelined Storage for High-Performance Energy-Efficient Computing with Superconductor Technology **Yiming Zhang** *National University of Defense Technology* Booting up 1,000 Virtual Machines in 2 Minutes **Jinsul Kim** *Chonnam National University* Cloud–based User-customized Smart Mobile Interface Interworking Technology for Smart Space/ Smart Works **SungTaek Oh** *Ajou University* Countermeasure of NFC Relay Attack with Jamming **Cheongmin Ji** *Ajou University* Review of One Time for Multicast Authentication in Smart Grid | **Gavin Grusd** *Silverman Acampora LLP* Forming Your Exit Strategy **Richard Chan** *Stony Brook University* Crowdfunding: How Kickstarter Investors Make Their Decisions **Steven Cohen** *New York Excelsior Growth Fund* New York Excelsior Growth Fund **Brian Keil** *Empire State Development* Overview of NY State Venture Capital Programs **Howard Schneider** *Stony Brook University, Alan Alda Center for Communicating Science* Why Communicating Your Science is the Key to Success (and How to Do it) **Peter Donnelly** *Stony Brook University* Working with Stony Brook University's Technology Transfer Office and IP Environment | |

**12:30 PM - 2:00 PM** | **LUNCHEON AND SPEAKERS**
Nancy Zimpher • Chancellor, State University of New York • *Welcoming Remarks*
Girish Rishi, Executive Vice President, Tyco International
*Keynote: IoT: Hype or Reality? Outlook for Schools, Hospitals, Stores, Offices and Beyond*

| **AFTERNOON SESSION 2:00 PM - 5:00 PM** | **INTERNATIONAL B2B** • Networking Session | | | | **Session II 2:00 PM-5:00 PM R Data Mining** Caret • Rpart RandomForest GBM • Boosting |
|---|---|---|---|---|---|

**5:00 PM** | **CONFERENCE ADJOURNED**

## Russell M. Artzt
**Chairman, Industrial Advisory Board, CEWIT, Co-Founder, CA Technologies, and Chief Executive Officer, Digital Associates LLC**

Russell M. Artzt Chairman, Industrial Advisory Board, CEWIT, Co-Founder, CA Technologies, and Chief Executive Officer, With more than 30 years of IT industry experience as a technology leader, consultant and executive, Russell Artzt provides counsel in the areas of strategic partnerships, product development leadership, community and public affairs, and corporate strategy. Artzt co-founded CA Technologies (formerly CA) in 1976 and wrote the code for some of the company's first products. Throughout much of his career at CA Technologies, Artzt served as executive vice president of research and development where he was instrumental in building the R&D, and field services organizations. Prior to his position as vice chairman, Artzt served as executive vice president of products, managing all product business units at CA Technologies, with particular focus on the integration of the company's industry-leading management software portfolio. Earlier, he led CA Technologies security brand, overseeing all aspects of the company's award-winning security product line. Artzt also ran the storage product line, successfully spearheading an organizational model that unified development, support and marketing within a brand unit. Artzt is a recognized expert in software development and project management. He serves as the Chairperson of the Industrial Advisory Board of Stony Brook University's Center of Excellence for Wireless and Information Technology (CEWIT) and is also a member of the Board of Directors for the Advanced Energy Research Group. In March 2008, Artzt was inducted into the Long Island Technology Hall of Fame. He is also active with many charitable organizations. He is a major supporter of North Shore University Hospital. In addition, he is a member of the Queens College Foundation Board of Trustees. Artzt received a bachelor's degree in mathematics from Queens College and a master's degree in computer science from New York University.

## Harry L. Leider
**Chief Medical Officer and Group Vice President, Walgreen Company**

Harry Leider, MD, MBA has over 25 years experience as a physician executive in a variety of innovative healthcare organizations. As Chief Medical Officer and a Group Vice President of Walgreens, he is responsible for developing enterprise-wide health and wellness services that provide customer value and improve patients' lives. Prior to joining Walgreens, Dr. Leider was Chief Medical Officer and Senior Vice President of Ameritox, a national laboratory that provides medication monitoring services to physicians that treat chronic pain and serious mental illness.

In addition to his extensive background in population health, Dr Leider has broad experience in managed care. He served as Chief Medical Officer at XLHealth, a Population Health company and Medicare health plan that served seniors with chronic illnesses. Previously he was Chief Medical Officer for HealthNet, a hospital-owned managed care organization, and a physician executive at Harvard Pilgrim Health Plan.

Dr. Leider speaks frequently to national audiences and is a core faculty member for the American College of Physician Executives, where he was a recent past-President and Board Chairman. His publications appear in journals and books including: the Essentials of Medical Management and Practicing Medicine in the 21st Century. He serves on the editorial boards of: Physician Executive, and the Journal of Population Health Management. Dr. Leider is a founding board member of the Disease Management Association of America and served on the Board of the Institute of Aging at the University of Pennsylvania.

Dr. Leider obtained a BA from Pennsylvania State University, an MD from the University of Pennsylvania, and his MBA from the University of Washington Foster School Of Business. For six years he was an attending physician at Brigham and Women's Hospital and faculty member at Harvard Medical School.

## Girish Rishi
**Executive Vice President
North America Installation and Services and Tyco Retail Solutions,
Tyco International**

Girish Rishi joined Tyco as Executive Vice President, North America Installation & Services and Tyco Retail Solutions, in May 2015. In this role, Mr. Rishi has responsibility for Tyco's commercial fire and security businesses in the U.S. and Canada, a segment with nearly $3.9 billion in revenue in fiscal year 2014, as well as the global Tyco Retail Solutions vertical market business. Before joining Tyco, he served as Senior Vice President, Enterprise Visibility and Mobility, with Zebra Technologies. Previously, Mr. Rishi oversaw product development, product management and engineering for the Enterprise division of Motorola Solutions and held positions of increasing responsibility with Symbol Technologies, ranging from sales and marketing roles to general management responsibility for several global regions. Mr. Rishi holds a bachelor's degree in commerce from the University of Mumbai, India, a master's degree in business administration from the University of Hartford, where he serves on the Board of Regents, and a master's degree in international public policy from Johns Hopkins University.

**Yacov Shamash**
Vice President for Economic Development,
Stony Brook University

Dr. Shamash is the Vice President for Economic Development at Stony Brook University. As Vice President, Dr. Shamash supervises the University's four incubators, three New York State Centers for Advanced Technology, the Center of Excellence in Wireless and Information Technology (CEWIT), the Advanced Energy Research and Technology Center, the Small Business Development Center, and the workforce development programs of the Center for Emerging Technologies. In 1995, Dr. Shamash led SUNY's colleges of engineering to create the statewide Strategic Partnership for Industrial Resurgence (SPIR) program. Stony Brook's cumulative results include more than 2,985 projects completed with more than 480 companies, helping company partners win more than $95 million in competitive federal awards. During the period from 1992 to 2015 Dr. Shamash served as Dean of the College of Engineering and Applied Sciences at Stony Brook University. Under his leadership, the College has grown from 1500 to over 5000 students with average SAT scores of entering UG students increasing from 1150 to 1343, and external research expenditures increased six fold to $30 million. Prior to joining Stony Brook in 1992, Dr. Shamash served as the Director of the School of Electrical Engineering and Computer Science at Washington State University and was responsible for the establishment of a National Science Foundation Industry/ University Center for the Design of Analog/Digital Integrated Circuits. He is a member of the Board of Directors of Keytronic, American Medical Alert and Applied DNA. He is also a member of the Board of Directors for the Long Island Software & Technology Network (LISTnet) and the Long Island Angel Network. Dr. Shamash has held faculty positions at Florida Atlantic University, the University of Pennsylvania and Tel Aviv University. He received his undergraduate and graduate degrees from Imperial College of Science and Technology in London, England. He has authored more than 130 publications and is a Fellow of the IEEE.

**Satya Sharma**
Executive Director, CEWIT
Professor, College of Engineering and
Applied Sciences, Stony Brook University

Dr. Satya Sharma came to Stony Brook University as the Executive Director of CEWIT and a faculty member of Department of Mechanical Engineering in 2003. Before joining Stony Brook, Dr. Sharma was Senior Vice President at Symbol Technologies from 1995 to 2003, overseeing various divisions of the company including World-Wide Operations, Mobile Computing & Wireless Engineering, and Quality & Process Improvements. Prior to his tenure at Symbol, he was Director of AT&T Power Systems and an adjunct professor at Southern Methodist University. Dr. Sharma has managed technology, led product development, managed marketing and financial functions, led operations and taken a leadership role in organizational transformation. He led Lucent Technologies to win the Deming Prize in 1994, making it the first and still the only American manufacturing company to have this honor. While leading Symbol's Mobile Computing & Wireless Engineering, the company won the National Medal of Technology in 2000. Dr. Sharma also led Lucent and Symbol to win the Shingo Prize in 1992 and 2003 respectively. Dr. Sharma has more than 70 technical publications and conducts research in a wide variety of disciplines. He holds a Ph.D. degree in mechanical engineering from University of Pennsylvania and an MBA degree from Ohio State University.

**Nancy Zimpher**
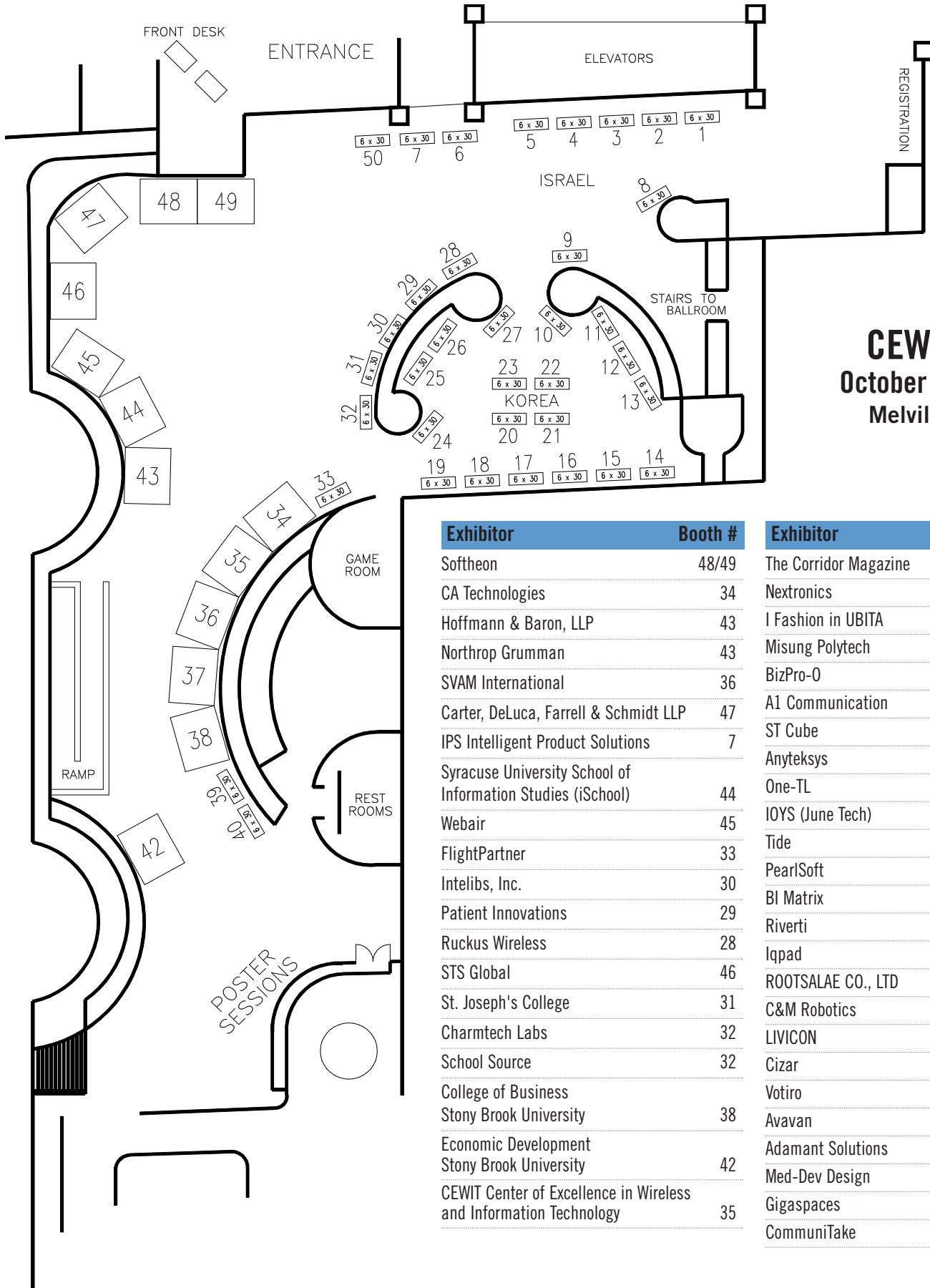Chancellor, State University of New York

In 2009 Nancy L. Zimpher became the 12th Chancellor of The State University of New York.

Chancellor Zimpher leads a diverse set of initiatives at SUNY in several areas, including research and innovation, energy, health care, global affairs, and the education pipeline. She has been a vocal advocate for groundbreaking legislative reforms that ensure SUNY can provide broad access to higher education while maximizing its impact as an engine of economic revitalization across the state.

Dr. Zimpher is active in numerous state and national education organizations, and is a leader in the areas of teacher preparation, urban education, and university-community engagement. She is chair of the Board of Governors of the New York Academy of Sciences and the National Association of System Heads. From 2005–2011 she led the Coalition of Urban Serving Universities, and from 2012–2013 she was chair of CEOs for Cities. As co-founder of StriveTogether, Zimpher has been instrumental in creating a national network of innovative systemic partnerships that address challenges across the education pipeline.

Prior to coming to SUNY, Dr. Zimpher served as president of the University of Cincinnati, chancellor of the University of Wisconsin-Milwaukee, and executive dean of the Professional Colleges and dean of the College of Education at The Ohio State University.

FRONT DESK

ENTRANCE

ELEVATORS

REGISTRATION

50 7 6

5 4 3 2 1

ISRAEL

8

9

28
29
30
31
32

27 10 11

26
25
23 22
KOREA
24 20 21

12
13

19 18 17 16 15 14

STAIRS TO BALLROOM

## CEWIT 2015
### October 19-20, 2015
**Melville Marriott**

GAME ROOM

REST ROOMS

RAMP

POSTER SESSIONS

33 34 35 36 37 38 39 40 42 43 44 45 46 47 48 49 41

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| Med-Dev Design | 4 |
| Gigaspaces | 5 |
| CommuniTake | 6 |

# SPONSORS

## CA Technologies

CA Technologies creates software that fuels transformation for companies and enables them to seize the opportunities of the application economy. Software is at the heart of every business in every industry. From planning, to development, to management and security, CA is working with companies worldwide to change the way we live, transact, and communicate - across mobile, private and public cloud, distributed and mainframe environments.

## Carter, DeLuca, Farrell & Schmidt, LLP

Carter, DeLuca, Farrell & Schmidt is a premier intellectual property law firm. The firm is dedicated to providing high quality, cost effective legal services to Fortune 100 and mid-size companies, universities, start-ups, and individual inventors.

## Charmtech Labs LLC

Charmtech Labs LLC was founded with the goal of improving significantly the effectiveness and equity of access to the Web's vast resources for people with disabilities, mobile users, and anyone who wants to have a better web browsing experience.

## CEWIT Korea

As a worldwide expansion of CEWIT, a sister institution of CEWIT Korea was founded by Stony Brook University in Songdo Free Economic Zone of Incheon Metropolitan City in early 2010 with financial support from the Korean Government exceeding $2M per year. It is at the forefront in defining the Korean technology vision related to Information Technology. Propelled by the complementary research strengths of CEWIT at Stony Brook and its Korean University partners, it is focusing on Korean strengths in healthcare, transportation, visual collaboration applications, transparent computing, and mobile and wireless technologies. These are all areas of enormous near term future potential. The thematic areas of CEWIT Korea have been carefully selected to draw upon the depth and breadth of our commitment to advance scientific knowledge and economic growth. Marrying Korea's short time-to-market capabilities with Stony Brook University's research capabilities in science and engineering disciplines will assure commercialization of cutting edge technologies in U.S, Korea, and other parts of the world.

## F. Chau & Associates, LLC

F. Chau & Associates, LLC - an intellectual property law firm ranked no. 1 in New York and Top Ten nationwide in securing for its clients the highest quality patents in consumer electronics and components (according to Ocean Tomo's Patent Ranking, 6/13).

## FlexTrade Systems, Inc.

Founded in 1996, FlexTrade Systems, Inc. is the industry pioneer in broker-neutral, order and execution management trading platforms for equities, foreign exchange, options, futures and fixed income. With offices in North America, Europe and Asia, FlexTrade has a worldwide client base spanning more than 175 buy-side and sell-side firms, including many of the largest investment banks, hedge funds, asset managers, commodity trading advisors and institutional brokers. For more information, visit FlexTrade Systems or follow news of the company on Twitter or LinkedIn.

## FlightPartner

FlightPartner is a global distribution system that aggregates private jet availability and brings that availability to the marketplace through an easy to use cloud-based luxury travel platform.

## Henry Schein, Inc.

Henry Schein, Inc. (NASDAQ:HSIC) is the world's largest provider of health care products and services to office-based dental, animal health and medical practitioners. With 2014 sales of $10.4 billion, Henry Schein is a Fortune 500® Company with more than 18,000 Team Schein Members and more than one million customers.

## Hoffmann & Baron, LLP

Hoffmann & Baron, LLP is celebrating its 30th anniversary as Long Island's premier Intellectual Property law firm. Since 1984, Hoffmann & Baron has provided the umbrella of Intellectual Property protection that stimulates innovation and economic growth. Possessing expertise in all areas of technology, we provide personalized attention and customize our services to fit the requirements of each client. Together with inventors and entrepreneurs, Hoffmann & Baron transforms ideas into assets. Please visit us at www.hbiplaw.com.

## IEEE Region 1 Long Island Section

The IEEE is the world's largest professional association advancing innovation and technological excellence for the benefit of humanity. The IEEE and its more than 400,000 members world-wide inspire a global community to innovate for a better tomorrow through its highly cited publications, conferences, technology standards, and professional and educational activities. The IEEE is the trusted "voice" for engineering, computing and technology information around the globe.

## Intelibs

Intelibs delivers complete product and services for your wireless indoor and outdoor coverage and capacity deployment. Our 4G in-building solutions along with our 3G network offers enable service provider, enterprise users and universities to build out a solution for wireless broadband access anywhere, anytime.

## Intelligent Product Solutions

IPS is a product design and development company specializing in the productization of emerging technologies and advanced materials into new hardware and software products and applications.

## MATIMOP
## The Israel Industry Center for R&D

MATIMOP, the executive agency of the Office of the Chief Scientist (OCS), of the Ministry of Economy of Israel is the official National Agency for industrial R&D cooperation in Israel, charged with promoting highly supportive policies to build Israel's industrial infrastructure, and nurturing industrial innovation and entrepreneurship. MATIMOP is the government agency that generates and implements international cooperative industrial R&D programs between Israeli and foreign enterprises.

## Northrop Grumman Corporation

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in unmanned systems, cyber, C4ISR, and logistics and modernization to government and commercial customers worldwide. We hold ourselves to a higher standard, both in the products we deliver and in the way we conduct ourselves throughout the entire customer experience. Because, after all, we are in the business of securing a great deal more than just our place in the market. Our mission is to be at the forefront of technology and innovation, delivering superior capability in tandem with maximized cost efficiencies. The security solutions we provide help secure freedoms for our nation as well as those of our allies. Squarely meeting our obligations, fiscally and technologically, isn't just a business goal, but a moral imperative. To that end, as we evolve as a company, the responsibility we feel for our country and the citizens and troops we help support grows with us.

## Office of the Vice President for Economic Development

The Office of the Vice President for Economic Development has responsibility for the economic development component of Stony Brook's public service mission, a pillar of the institutional triad of education, research and service. In the global "post-industrial" economy of the 21st century, with new centers of commerce rising around the globe, Stony Brook, as Long Island's only research-intensive university, has an unparalleled economic role in fostering a dynamic, interconnected, entrepreneurial regional ecosystem that fuels self-sustaining, technology-based industry clusters driven by continuing innovation.

# SPONSORS

Stony Brook has been a regional and state leader in collaborating with industry and government to design new technology-based economic development institutions and mechanisms — including CEWIT — winning competitive awards and implementing and sustaining programs. These have resulted in the creation and retention of more than 17,000 jobs and close to a billion dollars in corporate revenues, and the provision of assistance to more than 450 companies through more than 3,000 projects.

## Patient Innovations

OnTime Care® is disruptive software to eliminate waiting in doctors' offices, optimize physician practices and improve the patient experience with dynamic patient engagement.

## Ruckus Wireless

Ruckus Wireless is a global supplier of "Smart Wi-Fi" products—advanced wireless systems for the mobile Internet infrastructure market, including carriers, service providers, and enterprises.

## SchoolSource Technologies, LLC

School Source Technologies, LLC is a joint venture based company focused on "connecting innovation to education." A New York based and New York focused company that will promote and facilitate key solutions and vendor collaboration, improve features and functionality to existing systems, identify and promote emerging technologies, and work cooperatively with the NYS Regional Information Centers, BOCES (Board of Cooperative Education Services) and constituent School Districts.

## Softheon

Empowering the nation's first state health benefit exchange since 2008, Softheon's vision and strategic direction address healthcare payer, provider, and government agencies' goal of meeting Affordable Care Act (ACA) milestones. Softheon provides HIX Integration, Direct Enrollment, Premium Billing, and Edge Server solutions for insurance carriers of all sizes participating in Federal and State Health Insurance Exchange (HIX) Marketplaces. Softheon's Marketplace Connector Cloud (MC2) has been trusted by health plans, in all 50 states, as an accelerated federal, state, and private exchange integration platform. Nearly 10% of all Americans who enrolled in Federal and State Based Marketplaces in 2015 coverage use Softheon MC2 platform for enrollment, premium billing, and member services. Softheon MC2 is a Software-as-a-Service (SaaS) solution where insurers pay a one-time activation and ongoing PMPM fees for exchange members only, while eliminating most, if not all, risks associated with ACA enrollment compliance and other mandates. Softheon is an authorized Web Broker Entity (WBE) and approved by the federal government to offer subsidized health insurance to Americans. To find out more about Softheon, visit www.softheon.com.

## Stony Brook University

Stony Brook University is one of America's most dynamic public universities, a center of academic excellence and an essential part of the region's economy. U.S.News & World Report ranks Stony Brook among the top 40 public universities in the nation, and the Times Higher Education World University Rankings places us among the top 1 percent of all the universities in the world. A member of the prestigious, invitation-only Association of American Universities, Stony Brook is one of the 62 leading research institutions in North America and the co-manager of Brookhaven National Laboratory. Stony Brook's 1,040-acre campus on Long Island's North Shore encompasses not only the main academic areas of the University, but also Stony Brook Medicine, which includes the five health sciences schools, Stony Brook University Hospital, Stony Brook Long Island Children's Hospital, the Long Island State Veterans Home, and our major healthcare centers, programs and clinics.

## STS Global Inc.

STS Global is a dynamic satellite communications + telecommunications company where great engineering minds and outstanding experience intersect. We provide custom products, networks and services leveraging mainstream applications with wireless technology for clients worldwide.

## St. Joseph's College

The School of Professional and Graduate Studies (PGS) offers bachelor's degrees and credit-bearing certificates to adults with diverse professional and personal backgrounds. Adult learners are not traditional students. Many PGS students have college degrees and have already established themselves in the workforce.

## SUNY Korea

SUNY Korea opened its doors in March 2012 as the first American university established on Korean soil. It is also the first university to join the Incheon Global Campus (IGC). SUNY Korea's degree programs are comparable to prestigious universities in the United States. Students can enjoy both American education and dynamic Korean culture. SUNY Korea cherishes moral integrity and strives to teach our students to serve others with virtue and vision of their own. SUNY Korea also offers affordable on-campus housings, a wide variety of scholarships, opportunities to form a global network, and a well-balanced educational system to raise our students as competent and responsible leaders. SUNY Korea is proud to have students with stellar academic achievements, and seek students with exceptional talents. SUNY Korea is also proud to say that our student body is a true reflection of global community, with over 30% international students.

SUNY Korea aspires to be the hub for global education, research, and innovation. To accomplish this, SUNY Korea will form partnerships with top institutions in both private and public sector, and continue doing our best to build global network with leaders and talents from across the globe.

## SVAM International Inc.

SVAM International Inc. is a Global Information Technology (IT) solutions and services provider that delivers value and competitive advantage to customers by leveraging its technology expertise. For the past 20 years, SVAM has served multiple Fortune 1000 clients in manufacturing, healthcare, pharmaceuticals, finance, retail, transportation, high-tech as well as public sector.

## Syracuse University School of Information Studies (iSchool)

The Syracuse University School of Information Studies (iSchool) engages, empowers and educates the future leaders who shape our world through innovative coursework and research within an entrepreneurial and collaborative environment. It is the original information school in the nation and ranked #1 for information systems amongst library and information schools by US News and World Report. Innovative graduate programs are offered online and on campus in information management, telecommunications and network management, data science, information security management, eGovernment management and leadership, and more.

## The Corridor Long Island

The Corridor Journal of Strategic Alliances features Long Island's economic development through alliances of business, academic/research and not-for-profits, from high school to the boardroom.

## Webair

Webair is a Cloud, Colocation and Managed Hosting provider. Webair takes full ownership of customers' infrastructure stack so they can focus on their core business.

## Zebra Technologies

Zebra Technologies Corporation (NASDAQ:ZBRA) builds actionable information and insight, giving companies unprecedented visibility into their businesses by giving physical things a digital voice. Zebra's extensive portfolio of solutions give real-time visibility into everything from products and physical assets to people, providing very precise operational data not only about where things are, but what condition they are in. This allows business leaders to use data to make better, more informed decisions, respond, and ultimately, help businesses understand how they work, and how they could work better.

## Adamant Solutions

Adamant Solutions started in Haifa, Israel at 1975 as Hardware Company. In 2003 it started with a cybersecurity product named SWAT. Today, Adamant Solutions is a Cybersecurity IT consulting company that is here to protect your business.

## ARTsys360

ARTsys360 develops an innovative breakthrough 3D-360 Micro Radar — sensor to protect Compounds, Improve Traffic lights in Smart City and enables Autonomous cars.

## AVANAN

AVANAN is a cloud security startup based in New York City with R&D in Tel Aviv and backed by MagmaVC and StageOne Ventures.

## BondIT

BondIT is where the Big Data Analytics revolution meets the world of bonds. We develop advanced algorithm-based fixed income portfolio construction, optimization, rebalance, analysis and monitoring solution that is cloud based and easy-to-use.

## CommuniTake

CommuniTake crafts security, care and management solutions to provide people and businesses better mobile use. We deliver a comprehensive Mobility platform that unifies highly secure device, smart Mobility Management, robust multi-channel support, and core Android Internet of Things.

## DBS-H Ltd.

DBS-H is a Jerusalem based startup that develops an innovative product for Continuous Data Integration between SQL and NoSQL databases in private, public or hybrid cloud environments.

## Designit

Designit is a global strategic design firm, working to solve complex challenges with some of the world's largest companies and organizations.

## GigaSpaces

GigaSpaces Technologies provides software middle-ware for deployment, management and scaling of mission-critical applications on cloud environments through two main product lines, XAP In-Memory Computing and Cloudify.

## Incubit Ventures

Incubit Technology Ventures is a technology incuba-tor implementing an open-innovation platform for Elbit Systems (NASDAQ:ESLT). We are an early stage hands on investor providing a unique value of reduc-ing technological risk.

## Irody

Our vision is to bring medicines use to the digital age by integrating medicines use experience with the smartness of mobile — via our computer vision tech-nology — to make healthcare more accessible, man-ageable and innovative.

## Med-Dev Design

Med-Dev Design is an innovative company specializ-ing in medical software development and regulation solutions, offering a wide range of solutions tailored to client requirements.

## Moovex, Ltd.

Moovex saves you time, money and frustration by economizing your transportation logistics. Organizations large and small use Moovex's online location monitoring and advanced reporting to suc-cessfully optimize routes, stops, and vehicle sizes.

## Prafis

Prafis is a branch of Hessegim Software Ltd ("the Company"). Since 1995, the Company has been actively engaged in developing and marketing fixed-income software (Triple-A) in Israel.

## Siemplify

Siemplify is an advanced threat analysis and man-agement platform, leveraging current security investments and SIEM deployments to dramatically boost security operations effectiveness in identifying and mitigating cyber threats.

## Sixgill

Sixgill is a cyber intelligence platform that detects and defuses cyber threats before they become cyber-attacks. By continuously crawling the Dark Web's social network, Sixgill automatically and covertly monitors and analyzes illegal activity on a massive scale.

## Taliaz Diagnostics

Taliaz Diagnostics aims to develop a diagnostic tool designed to fit the correct antidepressant medica-tion to an individual suffering from depression.

## Votiro

Votiro offers unique solutions that protect networks and IT infrastructures from external cyber attacks rooted in known, unknown, and zero-day exploits.

# KOREAN DELEGATES

## A1 Communication

A1 Communications Korea Inc. found in 2009, is a premium & prestigious producer of embedded face recognition device and a high durable and reliable speed gate systems in Korea.

## Anyteksys

Anyteksys is a diversified technology company developing various kinds of devices including document endorser, certificate issuing machine, certificate KIOSK, wind power generator, smart safe and more.

## BizPro-O

OpenDraft by BizProo provides a OSMU integration development Platform as a Service(PaaS) enable the enterprises unite scattered IT systems into clouding services from ERP, CRM to SOA.

## BI Matrix

BI MATRIX helps people easily read and understand their data and information. We provide simple, easy and cutting edge DATA ANALYSIS SOLUTIONS (Business Intelligence Solutions) that fit to your business.

## C&M Robotics

C&M Robotics is a technology innovative company specialized in PRESS FIT TECHNOLOGY, which is used for automatic assembly and quality assurances of precision parts.

## Cizar

CIZAR Products are manufactured through professional research based on years of expertise of true dermatologists.

## i-Fashion in UBITA

i-Fashion in UBITA (Institute for Ubiquitous Information Technology and Applications) has developed the ICT convergence systems for fashion and distribution industry and provided the solutions to make global business.

## IOYS (June Tech)

IOYS is a 3D marketing company. We have 3D photo scanning and printing technology by using 100 DSLR cameras. We provide 3D real figure, pictorial and contents which can view into 360 degrees.

## Iqpad

Iqpad is the only company that leads complete control and protection for all file types of content files of enterprise by encryption technologies across all platforms and devices.

## Livicon

Livicon makes PDLCD (Polymer Dispersed Liquid Crystal) films which can be applied in a wide variety of field including panes of large commercial buildings, design products, transportations and advertisements for smart windows and rear screens.

## Misung Polytech

The Misung Polytech was established by Misung Electronics since 1988. It has made constant efforts to research and development (R&D) in order to provide the best electronic component through technological innovation, quality assurances and efficient manufacture management, therefore, it has been leading the electronic component industry in Korea

## Nextronics

Nextronics Co., Ltd has been actively involved in research and development of laser applications, Sensor applications, RF applications, Microprocessor applications and Wireless Communication applications related technologies.

## ONE-TL

ONE-TL is a company that makes world's first optical sensing digital meters(water meter, calorie meter and gas meter) and AMR systems.

## PearlSoft

PearlSoft is a professional SI(System Integration) company. We provide solutions and services based on outstanding technology. We have our own ERP, Shopping mall and Groupware solutions.

## Riverti

Riverti is a company that is related to sterilization, hygiene and deodorization and it offers sanitation service for home use (water treatment system etc.) and industrial disinfection system (Environment-friendly business in the field of agriculture, livestock and fisheries and technology convergence industry).
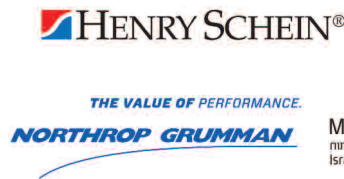
## ST Cube

STcube, Inc. conducts a biomedical technology and IT businesses. Under the IT industry, we focuses on developing and manufacturing the innovative LED lighting plastic phosphor PLP (Photo Luminescent Plastic) material, and its related devices and components.

## Tide

Tide Co., Ltd is one of the high technologies companies at the PLC (Power Line Communication) industries in Korea. Tide has developed PLC product line for both houses and industries, since 2000. Recently Tide has focused on AMI (Advanced Metering Infrastructure) system as Smart Grid businesses for government projects in Korea, and has spread to overseas market with PLC high technologies and long histories.

**CENTER DIRECTOR** Dr. Satya Sharma • **CONFERENCE CHAIR** Dr. Shmuel Einav • **PROGRAM CHAIR** Dr. Rong Zhao

Center of Excellence — WIRELESS AND INFORMATION TECHNOLOGY — AT STONY BROOK UNIVERSITY

# www.cewit.org