**Robotics & Inventors:**

**Ingredients for a Successful, Innovative Economy**

**Expo & Reception**

**Wednesday, 4 November 2015**

**4:00-6:30pm**

**2167 Rayburn House Office Building**

**Hosted by**

**Inventions Caucus Advisory Committee & Robotics Caucus Advisory Committee**

 ***In conjunction with the Congressional Inventions Caucus & Congressional Robotics Caucus***

Dear ......

You are cordially invited to an afternoon expo featuring innovative and creative robotics inventions. Speakers will highlight the importance of maintaining an economic ecosystem fostering technological innovations that improve our quality of life, create wealth, and spur new jobs and industries.

America is a nation of inventors. Nowhere is that spirit more boldly illustrated than in the rise of robotics technologies in start-ups, university and private labs, and in classrooms across the country. This briefing will feature some of those technologies and examine strategies for sparking a new wave of invention-led growth.

You will hear lively presentations from leading STEM innovators and educators who will discuss steps to reducing obstacles to innovation and encouraging growth. Topics will include IP protection and federal R&D, as well as the importance of fostering and expanding the STEM/Innovation ecosystem – a lifecycle that includes availability of education, job creation, and investment in small businesses and university research.

**4:00-4:10 Welcome – Opening Remarks**

**Robotics Caucus Co-Chairs Congressman Rob Woodall, Congressman Mike Doyle (tentative)**

**Inventions Caucus Co-Chairs Congressman Bill Foster, Congressman Paul Gosar (tentative)**

4:10—4:13 Moderator, Charles Sauer, President, Market Institute

4:15—4:25 Dr. Stephen Jurczyk, Associate Administrator, Space Technology Mission Directorate, NASA

4:25—4:35 Dr. Martial Hebert, Director, Robotics Institute, Carnegie Mellon University

 *Accelerating the Robotics Revolution*

4:35—4:45 Rick Weidinger, Founder & Chief Executive Officer, Robotic VISION Technologies, Bloomfield Hills, MI

4:45-5:00 Q&A, Closing

5:00-6:30 Reception, interactive exhibits

**EXHIBITORS**

Meet robotics technology inventors showcasing their innovations!

* **Karol Hatzilias, Chief Science Officer and Co-Founder,** [**United Sciences,**](http://www.unitedsciences.com/) **Atlanta, GA -** a global innovator and manufacturer of precision 3D hole scanning and imaging solutions with far reaching implications; developer of a technology platform enabling the creation of custom in-ear devices and hole metrology within precision engineering manufacturing
* [**Robotic VISION Technologies**](http://www.roboticscaucus.org/Schedule/2015/4Nov2015/documents/roboticvisiontechbio101415.pdf)**, Bloomfield Hills, MI -** a privately held machine vision technology company with complete 2D to 3D software vision solutions for state-of-the-art machine automation applications. RVT recently opened a second lab in Silver Spring, MD.
* **Scott K. Wong, Owner/CEO, HKRobotics, LLC, Honolulu, HI -** Showcasing a multirotor drone – a flying metal detector - with extended flight capability (more than 7 hours). Un-Exploded Ordinance Detection and Removal, Air, Land and Sea Monitoring and Survey; scans in real time, maps target on a GPS grid, while software determines the type of IEDs found.
* **Howie Choset, Robotics Professor, Carnegie Mellon University, Pittsburgh, PA -** [Series Elastic Snake Robot](https://www.youtube.com/watch?v=gooZV7Wq130) - snake robot; and [Snake Monster](https://www.youtube.com/watch?v=dq5KkLpJjtI) - a six legged robot system.
* [**Jonas Cleveland**](https://www.grasp.upenn.edu/people/jonas-cleveland)**, Cognitive Operational Systems, COSY, LLC, Philadelphia, PA -** specializing in indoor navigation for visually impaired people; COSY is a spin-off from the [University of Pennsylvania's GRASP lab](https://www.grasp.upenn.edu/)**.**
* **Spencer Penn, CEO, Phlone Technologies, Philadelphia, PA -** a startup born in 2015 in the Multi Robot Systems Lab (MRSL) at the University of Pennsylvania, bringing next-generation drone technology to platforms accessible by anyone.
* **Ting-Shuo Chou, Graduate Research Assistant, School of Social Sciences, University of California-Irvine, Irvine, CA -** [Carl-SJR (Cognitive Anteater Robotics Laboratory – Spike Judgment Robot)](http://www.socsci.uci.edu/~jkrichma/CARL/index.html), recently awarded a provisional patent, the robot is designed to help children with autism hone their social interaction skills; being used in a pilot program at UCI’s Child Development School.
* [**UCI Applied Research**](http://innovation.uci.edu/)**, Irvine, CA -** a one-stop community of businesses, investors, and entrepreneurs for industry collaboration.
* [**iMove@UCI,**](http://imove.eng.uci.edu/projects.html) **UC-Irvine, Irvine, CA -** The Music Glove, helps people such as combat veterans, improve finger dexterity; device is being commercialized by Flint Rehabilitation Devices, an Orange County start-up company founded by UCI students with the support of small business innovation research grants from the National Institutes of Health and National Institute of Disability and Rehabilitation Research.

**This will be a widely attended event.**

**RSVP to:** **b.concepcion@ieee.org**

*Hors d’oeuvres, cocktails and soft drinks will be provided.
This is a widely attended event and is open to all Members and staff*.

*The event is sponsored by IEEE-USA, Carnegie Mellon University, USInventor.org, Georgia Tech, and Computing Research Association (CRA)*

*The goal of the Congressional Robotics Caucus is to inform the Congress and the public about the importance of robotics to our nation’s economic growth, defense, safety, global competitiveness, and quality of life.*

*The purpose of the Inventions Caucus is to educate Members of Congress and their staffs regarding practical matters related to the innovation ecosystem, including patent and copyright matters, business, finance, and strategic issues regarding commercialization, exploring how inventions and discoveries fuel the U.S. economy, create jobs, and provide benefits to the public.*

If you would like more information about the robotics companies in your Congressional district, or info on the Robotics Caucus Advisory Committee, please contact Erica Wissolik, e.wissolik@ieee.org; or Debbie Tekavec, dtekavec@cmu.edu

If you would like more information about the Inventions Caucus Advisory Committee, please contact Charles Sauer, charles@marketinstitute.org; or Jim Edwards, jeconsult@verizon.net