

# SusTech2017 Sustainability Industry Forum

**Tuesday 1:30-3:30 PM**

**Moderator:** Mark Goldstein, President, International Research Center

**Panelists:**

- “The iNEMI 2017 Sustainable Electronics Roadmap”; Bill Bader, International Electronics Manufacturing Initiative (iNEMI)
- “The “Holy Grail”: Automating the business case for greener, healthier buildings & sites”; Eric Bill Autocase
- “Our Water Future: Challenges and Opportunities”; Todd Brady, Intel
- “Advanced Driver Assistance Systems (ADAS) and the Future of Driving”; Charles Ross, NXP Semiconductors

## The iNEMI 2017 Sustainable Electronics Roadmap

**Bill Bader**

**CEO of iNEMI**

**Abstract:**

The iNEMI Mission statement of “Forecast and Accelerate Improvements in the Electronics Manufacturing Industry for a Sustainable Future” demonstrates the iNEMI membership to sustainability. It is a core value and focus of our technology road map process and we run multiple collaborative R&D projects on challenges in the areas of sustainability. We will share current work on both of these areas with strong global industrial membership support.

The presentation will be a review of the iNEMI 2017 Sustainable Electronics Roadmap and several related projects that focus on Value Recovery from Used Electronics, Reuse and Recycling Metrics and Eco-Design.

The 2017 roadmap incorporates five dedicated sections and has been structured to reflect the flow of a product’s lifecycle. The first section on Sustainability provides a holistic overview and sets the scene for the subsequent sections on: Eco-Design, Materials, Energy, and End-of-Life.

An overview will be covered that includes current situational analysis, identification of any technology and business needs, gaps, any industry showstoppers and conclusions with recommendations

**Speaker:**

**Bill Bader** is the CEO of the [International Electronics Manufacturing Initiative \(iNEMI\)](#). Bill took this role in August of 2009 and he has been driving excellent growth in the iNEMI membership and in the quantity and quality of collaborative R&D projects that are executed by the iNEMI membership. INEMI has seen a growth in membership of 75% overall during that time period and has grown the number of Research institute or University members by 160% during Bill’s leadership with an increased focus on collaborative research.



He came to iNEMI after a 26 year career at Intel Corporation. Bill retired from Intel in 2005.

At Intel Bill served as the General Manager (GM) of Intel's Systems Manufacturing and Technology Development group (SMTD) that provided design, and manufacturing services for new board and system products for all the business units within Intel, and was accountable for Technology Development and Path Finding in support of board and system manufacturing. Bill managed up to 1100 employees at multiple sites in the US, Malaysia, and China. His group developed key assembly and test technologies in support of CPU and Chipset launches and enabled high volume launch in multiple outsourced factories in SE Asia. Bill's organization(s) also won two Intel

Quality Awards under his leadership for excellence in support of Intel's values.

Bill has a BS in Electrical Engineering from the Rochester Institute of Technology.

## The "Holy Grail": Automating the business case for greener, healthier buildings & sites

### Eric C. Bill

#### Autocase

#### Abstract:

This session will cover the latent demand by large building and infrastructure owners for greater insight into the true value of those assets, not just the upfront costs. Using the gold standard in business case analysis, something called "[Triple Bottom Line Cost Benefit Analysis \(TBL-CBA\)](#)", the team at Autocase has automated this valuation exercise, putting it in the hands of architects and engineers so assets can be optimized for highest financial, environmental, and societal benefit.

#### Speaker:

**Eric Bill** is an applied economist and Principal Consultant with Autocase. Eric leads the customization and consulting teams at Autocase and helps clients leverage technology to make more informed design decisions on buildings and green stormwater infrastructure projects. He has extensive experience leveraging economic concepts to incorporate sustainability into decision making – he has been deeply involved in the evolution of the triple bottom line cost benefit analysis (TBL-CBA) framework, creating methodologies to monetize a variety of environmental and societal impacts to sustainable design. He has advised global corporations, as well as all levels of government across North America. He's a recognized global expert in capital project evaluation.



## What it takes to build a smart and green state of the art building

**Taimur Burki**

**Global Green Building Program Manager, Intel**

**Abstract:**

Intel Technology India Pvt Ltd recently completed construction of Intel's Sarjapur Ring Road Building 3 (SRR3), a new office building in Bangalore, India. SRR3, located on an existing Intel campus with more than 3,500 Intel employees, is one of the most unique office buildings on an Intel site. This intelligent and efficient building which is now LEED Platinum certified for new construction was designed and built with the help of a small dedicated Intel team.

SRR3 is Intel's smartest and greenest building to date and is in the top 1% of green building projects worldwide based on the 2009 LEED new construction rating system. This 628,000-square-foot, nine-story office building is 48% more energy efficient than other like buildings, produces 70% less GHG emissions and has the potential to save over 12 million gallons (MGY) of potable water annually.

As part of this panel Intel will be discussing the energy and water conservation methodology along with the smart aspects of this building.

**Speaker:**



Taimur Burki is the global program manager for the Solid Waste and the Green Building for Intel Corporation. A transformational leader, respected technical expert, and result-focused professional with demonstrated success in leading the entire life cycle of responsibilities associated with the design, development, implementation, and support of high-profile, complex projects and programs focusing on sustainability, conservation and environmental protection. Taimur began working for Intel in 1997 as an environmental engineer doing dumpster diving and since then has added other responsibilities including managing wastewater and air permitting, chemical waste, decontamination, solid waste, storm water, emergency response, and construction environmental management. He is responsible for creating and implementing a sustainability initiatives from green building to water conservation to renewable energy technologies across Intel sites. He provides direction and guidance to Intel buildings and campuses to help them achieve certification to LEED Existing Buildings Operations and Maintenance (EBOM) or New Construction (NC) as Intel's Global Green Building Program Manager. Taimur holds an MSc in Environmental Impact Assessment from the University of Wales at Aberystwyth, and a BSc from Purdue University in Biology.

## Advanced Driver Assistance Systems (ADAS) and the Future of Driving

**Charles Ross**

**Radar Technical Marketer, Product Line ADAS, NXP Semiconductors**

**Abstract:**

Introduction to the ADAS market, current & future developments and the impact on the way we use cars.

**Speaker:**

**Charles Ross** is very passionate about Advanced Driver Assistance Systems (ADAS) that make driving safer, enable autonomous vehicles and ultimately save lives.

Currently Charles serves as a Radar Technical Marketer within NXP's ADAS Product Line. Drawing on his experience in developing new products, Charles now works with internal research and development teams along with automotive Tier1s to accelerate the adoption of radar and other ADAS technologies.

Through the course of his 33-year career, Charles has worked at Motorola, Freescale, and NXP. He has held a variety of technical, marketing, and general management positions in the government electronics and semiconductor industries.

Most recently as a technical Marketer within NXP's ADAS product line.

Charles graduated from New Mexico State University with a bachelor's degree in Electrical Engineering and Arizona State University with a master's degree in Electrical Engineering.

In addition to spending quality time with his wife and two children, Charles enjoys music, running long distance and following the local professional sports teams.

