

Invention Convention 2011

Reception • 6:00 p.m.

Awards Ceremony • 7:00 p.m.

Welcome

Kerry M. Orlyk

Executive Director

Schenectady Museum & Suits-Bueche Planetarium

Presentation

Solar and the Need for Innovation

Todd Tolliver

Photovoltaic Engineer, GE Global Research

Since starting work at GE Global Research more than nine years ago, Mr. Tolliver has worked on projects involving fiber optic (FO) network design, analog FO links, polymer waveguides, and polymer-based interferometers. Most recently, he has spent the last six years working in the field of photovoltaics investigating technologies in both devices and modules. He has lead a multidisciplinary team developing high efficiency silicon solar cells and was the principal investigator for GE's Solar America Initiative program. After recently leading an effort in flexible packaging of thin film solar cells, Mr. Tolliver is currently leading development of back contact processes for thin film modules. He currently holds 11 patents and has published 22 journal articles and conference papers.

Congratulatory Remarks

Mark Pierson

New York State Invention Convention Program Director, Inventor

Invention Convention stimulates creativity and imagination by teaching students how to apply problem-solving skills in their lives. For *Invention Convention 2011*, **1,336** invention applications were submitted, representing **36** schools across the Capital Region.

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Volunteer Judges

- *Victor Baronowski*
- *Gizem Basbug*
- *Trish Bergan*
- *Elain (Chi) Berlin*
- *Kenneth Bina*
- *Joseph Christian*
- *Francis Coppa*
- *Travis Dauwatter*
- *Lawrence Davis*
- *Rudy Dehn*
- *Megan Dominguez*
- *Susanne Dorr*
- *Dan Durant*
- *Tony Farah*
- *Erin Finehout*
- *Mike Flinton*
- *Pam Flinton*
- *Mary Louise Gioeni*
- *Mark Goldberg*
- *George Goodman*
- *Kevin Harding*
- *Charlotte Hern*
- *Mary Ellen Hern*
- *Rakesh Joshi*
- *Maria LaTorre*
- *Thomas Leung*
- *Neil Levine*
- *Shi-Ming Li*
- *Alec Lombardo*
- *Dale Lombardo*
- *Rita Lynch*
- *Julianna Mastroianni*
- *Louis R. Mazzone*
- *Dale McHerron*
- *Richard McIlravey-Ackert*
- *Jason Murphy*
- *Rick Nielson*
- *Kerry Orlyk*
- *Mark Osterlitz*
- *Srihari Palaniswamy*
- *Garrett Quillia*
- *Robert Radtke*
- *Abigail Remington*
- *Ty Remington*
- *Randie Sanford*
- *Tobi Saulnier*
- *Christopher Savio*
- *Roland Sedziol*
- *Ricki Shapiro*
- *Anna Signore*
- *Garrett Smith*
- *Priscilla Sprague*
- *Punia Surinder*
- *Steven Swinton*
- *James Syta*
- *Mary Szczepanski*
- *Richard Szczepanski*
- *Fozia Tahir*
- *Nilesh Tralshawala*
- *Anna Maria Tubelli*
- *Christen Vitrone*
- *Joan Wagner*
- *Chris Willox*
- *Edward Winegard*
- *Gary Withey*
- *Robert Wodnicki*