

14th ANNUAL CONFERENCE

ACCELERATING INNOVATION:

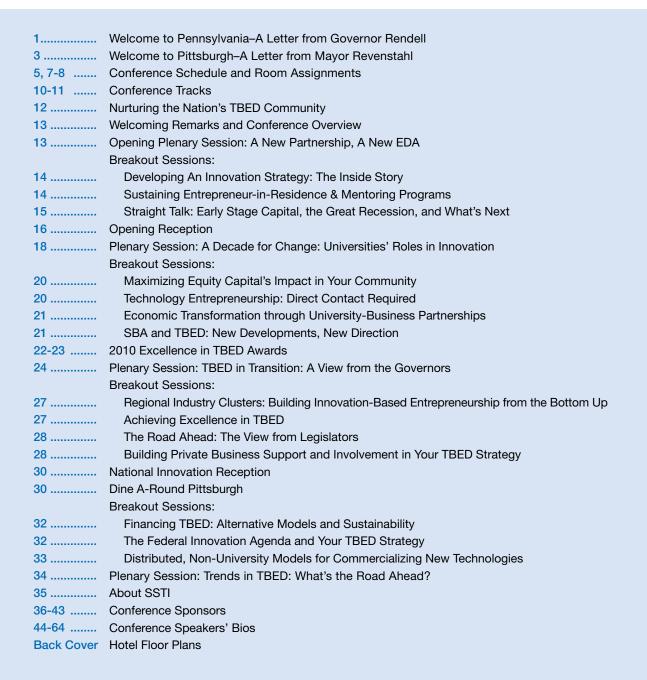
The Road Ahead for Technology-based Economic Development



Exchange best practices.

Link to innovative ideas.

September 14–16, 2010 Pittsburgh, Pennsylvania Omni William Penn Hotel





COMMONWEALTH OF PENNSYLVANIA OFFICE OF THE GOVERNOR HARRISBURG

THE GOVERNOR

Greetings:

Welcome to Pittsburgh and to the 14th annual State Science and Technology Institute conference!

Pittsburgh is an ideal location for you to share ideas and insights about how we can grow our economy by investing in the technology industry. Thirty years ago, Pittsburgh's economy was decimated when its steel industry collapsed. Since then, the city has transformed itself into a national leader in technological innovation, so that advanced industries like robotics, the life sciences and advanced materials are a significant driver of the region's economy.

Pittsburgh's experience mirrors that of Pennsylvania on a statewide basis. Under my administration, we've made investing in our tech sector a priority. In 2003, we enacted a \$3.2 billion economic stimulus plan that targeted \$345 million to developing and commercializing cutting edge research and technologies, as well as supporting promising entrepreneurs. To date, we've allocated \$250 million of that total in projects that have leveraged nearly \$1 billion in private funding and created or saved 12,800 jobs.

These have been smart, worthwhile investments—a point that has been well documented. Pennsylvania has been recognized as one of the top three states for jobs related to the biosciences and green energy. Furthermore, an analysis of one of our leading tech-based economic development programs—the Ben Franklin Technology Partners—found that every dollar they spent in helping their clients grow returned three-and-a-half times more to the state's economy helping Pennsylvania's GDP grow by billions of dollars.

We must continue investing in our technological capabilities and infrastructure because it's important for Pennsylvania's future. Other states and other nations are making these investments, so Pennsylvania cannot afford to fall behind, especially because technology will be such an integral part of the 21st century, global economy.

I appreciate the collaboration and exchange of ideas and best practices that is the hallmark of this conference. I also appreciate your commitment to technology-based economic development. Thank you for attending this year's SSTI conference and I hope you have an opportunity to see firsthand the amazing transformation Pittsburgh is undergoing.

Sincerely,

Edward G. Randle Edward G. Rendell Governor

A Big Thank You to Our **Partners and Sponsors**

The Pennsylvania Department of Community & Economic Development and Innovation Works extend our sincere gratitude to the host sponsors who made the 2010 SSTI Annual Conference possible:

Ben Franklin Technology Partners CNP

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CITY OF PITTSBURGH

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Office of Mayor Luke Ravenstahl

Dear Conference Attendees:

Welcome to the 14th annual State Science and Technology Institute conference!

Pittsburgh's knowledge and innovation-driven economy is a global one, with more than 100 international, multi-billion dollar companies headquartered here. A hot bed of intellectual capital and opportunity, Pittsburgh-based products, services and solutions touch the lives of people

Economic growth of our region has been catalyzed through emerging technology-based entrepreneurial firms in sectors such as Information Technology, Life Sciences, Green/Energy, and minority and women-owned businesses. The City of Pittsburgh and Urban Redevelopment Authority are committed to being an integral part of the technology-based economic development fabric.

We are pleased to have had shared success with our partners such as local universities, Idea Foundry and those at Innovation Works, counting McKesson, Aethon, RedPath Integrated Pathology, RedZone Robotics, Bossa Nova Robotics, Alung and others as portfolio investments.

We have recently rolled out the Pittsburgh Entrepreneur Fund with a goal of building off of the great work of our City's technology incubators and collaborators to invest in emerging, high growth potential companies here in Pittsburgh. We are excited to report having already invested in companies such as Stemnion, Biosafe and Compliance Assurance with several great companies in our pipeline.

As founding investors and board members, we are also committed to the continued success of the Pittsburgh Central and Greater Oakland Keystone Innovation Zones. Further, we will continue to work on the development of world-class facilities, such as our investment in the Pittsburgh Technology Center, South Side Works, Bakery Square, Collaborative Innovation Center and more.

The idea exchange that will take place over the next few days will continue to drive technologybased economic development. As new partnerships and opportunities emerge, we remain committed as a partner to entrepreneurs looking to invest and grow in the City of Pittsburgh.

Thank you for attending this year's SSTI conference, and I hope that you enjoy our beautiful City.

Sincerely

Mayor, City of Pittsburgh



advancing federal research and technology

The Federal Laboratory Consortium for Technology Transfer (FLC), a nationwide network of over 250 federal laboratories, is the only government-wide forum for technology transfer (T2). Organized in 1974 and formally chartered by the Federal Technology Transfer Act of 1986, the FLC provides the framework for developing T2 strategies and opportunities by promoting and facilitating technical cooperation among federal laboratories, industry, academia, and state and local governments.

The FLC advances T2 by expanding communication among industry, government, and academia. The FLC's website, Technology Locator, T2 Desk Reference, *FLC NewsLink*, trade show exhibits, awards program, education and training publications, and network of experts are only a few of the tools it provides for successful T2.

The FLC is a consortium driven by the dedicated people of the federal laboratory system. These people are the scientists, agency representatives, and T2 professionals who transfer federally funded technology and expertise to the marketplace.

Put the FLC to Work for You!



Technology for Today

An annual publication showcasing the recent successes of the federal laboratory system.

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T2 Desk Reference

The desktop essential for T2 pros and laboratory representatives!



Washington, DC Representative

Your resource to stay informed about changes in T2 legislation and policy. More info: Gary Jones, 202-296-7201, or at gkjones@federallabs.org.

www.federallabs.org

products and services.

The FLC website makes it easy to find people, capabilities, and applications within the FLC's network of federal labs and centers. The site publicizes T2 news and technology trends, and provides a gateway to FLC

NOTE:

The Hope and Welk Rooms are on the Mezzanine level, accessible by elevator. All other meeting rooms are on the 17th Floor.

8:00 AM	Registration 17th Floor Lobby
9:00 AM- 12:00 PM	Preconference Option: Introduction to Technology-based Economic Development Monongahela Room Preconference Option: Power Roundtable: Insider Advice Sky Room Preconference Option: The Energy Imperative: Maximizing Green TBED Opportunities Allegheny Room
1:00 PM	Conference Registration 17th Floor Lobby
1:30 PM	Welcoming Remarks & Conference Overview Grand Ballroom p.13
2:00 PM	Opening Plenary Session: A New Partnership, A New EDA Grand Ballroom p.13
3:15 PM	Networking Break Urban Room
3:45 PM	Breakout Sessions p.14-15 Developing An Innovation Strategy: The Inside Story Allegheny Room Sustaining Entrepreneur-in-Residence & Mentoring Programs Monongahela Room Straight Talk: Early Stage Capital, the Great Recession, and What's Next Welk Room
6:30 PM	Opening Reception at the Phipps Conservatory p.16

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In Oklahoma City, we've experienced firsthand how a pioneering spirit of entrepreneurship, innovation and collaboration can change our city. We went from a population of zero to a city of 10,000 in a single day, and now are a metropolis of 1.2 million, boasting billions of dollars in public & private investment, burgeoning biotech, aerospace & energy sectors, a strong culture of entrepreneurship & innovation, and even our own NBA team. With the Bureau of Economic Analysis recently confirming OKC is the fastest-growing large MSA in terms of per-capita income, this is a great time to invest, partner and grow in Oklahoma City.





G R E A T E R

www.okcchamber.com 405-297-8893 jobrien@okcchamber.com

6:30 AM	Yoga & Morning Run/Walk (optional) Sky Room p.12
8:00 AM	Breakfast Grand Ballroom
9:00 AM	Plenary Session: A Decade for Change: Universities' Roles in Innovation Grand Ballroom p.18
10:15 AM	Networking Break Urban Room
10:45 AM	Breakout Sessions p. 20-21 Maximizing Equity Capital's Impact in Your Community Allegheny Room Technology Entrepreneurship: Direct Contact Required Hope Room Economic Transformation through University-Business Partnerships Welk Room SBA and TBED: New Developments, New Direction Monongahela Room
12:00 PM	Lunch and Excellence in TBED Awards Ceremony Grand Ballroom p. 22-23
2:00 PM	Plenary Session: TBED in Transition: A View from the Governors Grand Ballroom p. 24
2:00 PM 3:15 PM	
	Grand Ballroom p. 24
3:15 PM	Grand Ballroom p. 24 Networking Break Urban Room Breakout Sessions p. 27-28 Regional Industry Clusters: Building Innovation-Based Entrepreneurship from the Bottom Up Hope Room Achieving Excellence in TBED Allegheny Room The Road Ahead: The View from Legislators Welk Room Building Private Business Support and Involvement in Your TBED Strategy

6:30 AM	Yoga & Morning Run/Walk (optional) Sky Room p.12
8:00 AM	Breakfast Grand Ballroom
9:00 AM	Breakout Sessions p. 32-33 Financing TBED: Alternative Models and Sustainability Monongahela Room The Federal Innovation Agenda and Your TBED Strategy Welk Room Distributed, Non-University Models for Commercializing New Technologies Allegheny Room
10:15 AM	Networking Break Urban Room
10:45 AM	Plenary Session: Trends in TBED: What's the Road Ahead? Grand Ballroom p. 34
12:00 PM	Adjourn



Battelle Technology Partnership Practice

About Battelle

Battelle is the world's largest nonprofit independent research and development organization, providing innovative solutions to the world's most pressing needs through its four global businesses: Laboratory Management, National Security, Energy Technology, and Health and Life Sciences. It advances scientific discovery and application by conducting \$5.6 billion in global R&D annually through contract research, laboratory management, and technology commercialization.

The Battelle economic development group—Technology Partnership Practice—is a leading provider of comprehensive economic impact services. We equip stakeholders with in-depth analyses that:

- Identify regional core competencies
- Uncover emerging opportunities
- Assess strengths against market opportunities
- Pinpoint specific strengths, weaknesses, opportunities and threats.

Our experience extends across a wide range of science, technology and economic development sectors. Through our implementation services, we bring strategies to life and achieve tangible results. We can position you towards high performance in the competitive technology-driven economy.

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Conference Tracks

With so many choices, SSTI's Annual Conference could be viewed as several conferences in one. In fact, it really is! SSTI offers six different thematic tracks touching on the most vital issues, audiences and needs for accelerating regional innovation.

Our tracks allow you to get the information and connections you need to get the most out of this unique event. Build the conference experience that's right for you by using the schedule on these two pages.

This years's themes include:



FEDERA

An understanding of where the federal government is heading on innovation and how you can tap into it



CAPITAL

Proven ideas for increasing tech companies' access to capital



COMMERCIALIZATION & ENTREPRENEURSHIP

New perspectives and approaches for commercializing technology and encouraging entrepreneurship



UNIVERSITIES

Insights into the evolving roles of universities in economic development



STRATEGY & ALLIANCE BUILDING

Strategies for your organization and region in times of fiscal stress and political transition



HOW TO

Renewed energy, fresh ideas and personal resolve to address the challenges of improving your area's economy

Tuesday A New Partnership, A New EDA 2:00 Plenary 3:45 Breakout Developing An Innovation Strategy: The Inside Story Breakout Sustaining Entrepreneur-in-Residence & Mentoring Programs • • • 3:45 Breakout Straight Talk: Early Stage Capital, the Great Recession, and What's Next Wednesday A Decade for Change: Universities' Roles in Innovation 9:00 Plenary 10:45 Breakout Maximizing Equity Capital's Impact in Your Community 10:45 Breakout Technology Entrepreneurship: Direct Contact Required 10:45 Breakout Economic Transformation through University-Business Partnerships 10:45 Breakout SBA and TBED: New Developments, New Direction TBED in Transition: A View from the Governors 3:45 Breakout Regional Industry Clusters: Building Innovation-Based Entrepreneurship from the Bottom Up Breakout The Road Ahead: The View from Legislators Building Private Business Support and Involvement in Your TBED Strategy Thursday 9:00 Breakout Financing TBED: Alternative Models and Sustainability Breakout The Federal Innovation Agenda and Your TBED Strategy 9:00 Breakout Distributed, Non-University Models for Commercializing New Technologies

SSTI's Annual Conferences are known for having nurtured, expanded and sustained the tech-based economic development community since 1996, when the field was still in its infancy. The conference remains the only event to bring together such a diverse cross-section of people from every corner of the U.S. – all committed to encouraging economic transformation through science, technology and innovation. The conference's high-quality breakouts and interactive plenary sessions on timely topics stimulate the minds of TBED practitioners and policymakers, but SSTI also adds conference elements to nurture the soul of the community – our friends and peers.

Morning Hatha Yoga 6:30 AM Wednesday & Thursday (in the window-filled Sky Room)

Yes, you read that correctly. Now in its third year, SSTI's increasingly popular yoga class again will be offered early each morning. Yoga is a fun activity that can produce powerful results and will wake up your body, sharpen your mind, and clarify your spirit. Yoga doesn't hurt, is only as difficult as you make it, and allows you to proceed at an individualized pace so it's great for beginners as well as more advanced practitioners.

Morning 5K Run/Walk 6:30 AM Wednesday and Thursday

New this year! There's no better way to get the sense for the city's vibe and landmarks of a city than to immerse yourself in it. A brisk walk or a jog with the mid-September sunrise, local host/guide and fellow fitness-minded conference attendees is a great way to start the day and maintain your exercise regimen while traveling. Route maps will be provided if you'd prefer to travel at your own pace. Convene in the hotel lobby.

Afternoon Meditation 5:00 PM Wednesday (in the Sky Room)

Another new addition this year! Always crave a little quiet, calming down time by yourself while attending bustling conferences? Wondered what people actually do when they meditate or just curious to try it? We will offer a soothing, guided, nonsectarian meditation session immediately following the afternoon breakouts – allowing you to join the National Innovation Reception centered, refreshed and ready to fully re-engage with your peers. No special attire or physical ability required and chairs will be available for those who prefer. Beginners encouraged. Approximately 35 minutes.

Welcoming Remarks and Conference Overview 1:30 PM - 2:00 PM | Grand Ballroom

John Sider, *Deputy Secretary*, Pennsylvania Dept. of Community & Economic Development Richard Lunak, *President & CEO*, Innovation Works, Inc. Dan Berglund, *President & CEO*, SSTI





The Economic Development Administration leads the federal economic development agenda and is one of the nation's most important agencies for supporting state and regional tech-based economic development initiatives. Until recently, that support hasn't always been easy to obtain as the agency was mired in 45-year old policies and layers of inefficient bureaucracy. The difference two years and strong leadership can make. The transformation underway at the EDA is positioning the agency to be a proactive and responsive partner with state, regional and university strategies to encourage and sustain innovation and TBED.

It takes dynamic, visionary and pragmatic leadership to accomplish such a turnaround so quickly, and SSTI is excited to welcome one of the people most instrumental in carrying through the Obama administration's commitment to shift more of the federal economic development support structure toward regional innovation and high-growth opportunities.

Address by:

Brian P. McGowan, Deputy Assistant Secretary of Commerce for Economic Development, and Chief Operating Officer, Economic Development Administration

3:15 PM - 3:45 PM Networking & Refreshment Break | Urban Room



Developing An Innovation Strategy: The Inside Story 3:45 PM - 5:00 PM | Allegheny Room | 17th Floor

Combine a changing economy with the need to create economic growth amid political transition, and now is the best time to develop an innovation strategy. Led by two practitioners who have developed multiple economic development strategies over the years, this session will provide you with the inside story on what's needed to put together an effective strategy. We'll look at everything from interpreting data to characterize your economy, building support for recommendations, and setting a system for implementation of the strategy.

Presenters:

Deborah Cummings, Assistant Director, Technology and Innovation Division, Ohio Department of Development

Catherine Renault, Director, Office of Innovation, Maine Department of Economic and Community Development, and Science Advisor to the Governor



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Sustaining Entrepreneur-in-Residence & Mentoring Programs 3:45 PM - 5:00 PM | Monongahela Room | 17th Floor

Experienced and serial entrepreneurs can be a powerful resource in helping new businesses to thrive. These professionals offer unique insight about how to succeed within the realities of a particular region. In this session, we will highlight successful models from SSTI research and talk to practitioners about challenges of developing and maintaining a roster of experienced entrepreneurs to assist the next generation of high-tech startups.

Presenters:

James Jordan, Vice President and Chief Investment Officer, Pittsburgh Life Sciences Greenhouse Leslie Smith, General Manager, TechTown

Moderator:

Phillip Battle, Policy Analyst, SSTI



Straight Talk: Early Stage Capital, the Great Recession, and What's Next 3:45 PM - 5:00 PM | Welk Room | Mezzanine Level

This recession has been like no other ever experienced by the nation's equity capital market. This equity investment industry is still in a state of flux - and financial regulatory reform is changing the field yet again. There is a lot of noise in the industry right now, but one thing is certain: local sources of seed and early stage capital – both public and private – are more important than ever. We'll have a candid discussion with three leaders in the field for some straight peer-to-peer talk on the policy opportunities, dangers, and needs to ensure high-growth enterprises have the access to capital they need.

Discussants:

Ray Leach, Chief Executive Officer, JumpStart Inc. Richard Lunak, President & CEO, Innovation Works, Inc. Catherine Mott, Founder & CEO, BlueTree Capital Group LLC, and Chair, Angel Capital Association



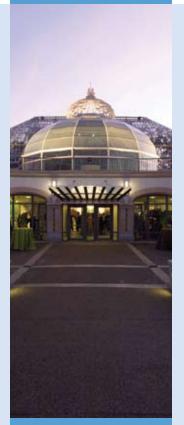
NCOE is now *piloting* a powerful, unique new technology matching strategy at its **GAMBIT CENTER** to help facilitate significantly more and faster technology deployment, expanding this strategy into regional partnerships, and pursuing a major congressional technology funding initiative. Learn more about **NCOE**'s new **GAMBIT CENTER** by becoming involved with any of the **NCOE**'s creative technology deployment initiatives.

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The **NCOE** is a division of WestCAMP, Inc., a 501(c)(3) organization, and founder of MEP-Utah.



Set amidst one of
Pittsburgh's largest
greenspaces, Schenley
Park, Phipps Conservatory
stands as a cultural and
architectural centerpiece
of the Pittsburgh's
Oakland neighborhood.

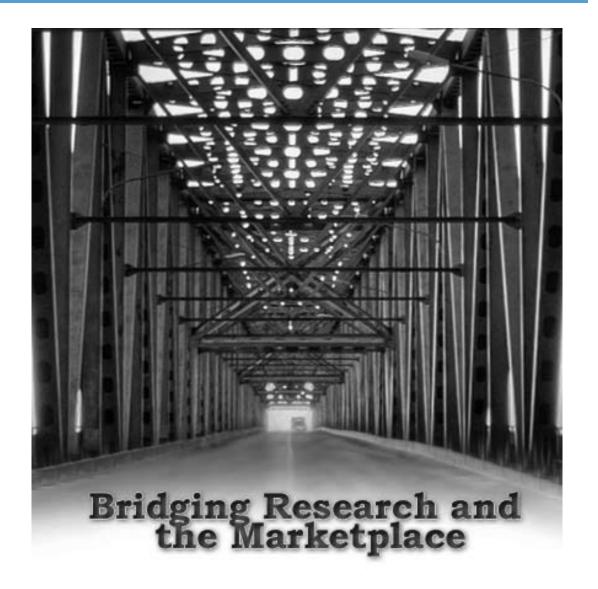
Opening Reception Tuesday, September 14 6:00 PM - 9:30 PM | Phipps Conservatory

Pennsylvania invites you to a networking reception at the Phipps Conservatory and Botanical Gardens Tuesday evening. Set amidst one of Pittsburgh's largest greenspaces, Schenley Park, Phipps Conservatory stands as a cultural and architectural centerpiece of Pittsburgh's Oakland neighborhood.

Explore this thriving attraction that showcases advanced green-building practices, sustainable gardening and a new environmental awareness. For information about Phipps Conservatory, visit: http://phipps.conservatory.org/.

Enjoy cocktails and a combination of artfully garnished hors d'oeuvres and innovative food stations with portions to replace a meal. Also, we will hear from some of Pennsylvania's most prominent TBED advocates.

Transportation to and from the Omni William Penn Hotel and the event will be provided, beginning at 5:45 PM. Please assemble in the hotel lobby.





Stop by our Booth To Learn More! www.nist.gov/mep

Morning Hatha Yoga | 6:30 AM | Sky Room (see page 12)

Morning 5K Run/Walk | 6:30 AM | Hotel Lobby (see page 12)

Breakfast | 8:00 AM | Grand Ballroom



A Decade for Change: Universities' Roles in Innovation 9:00 AM - 10:15 AM | Grand Ballroom

The Great Recession has heightened expectations of America's universities and colleges to be proactive partners - and in many cases leaders - for innovation and regional economic development. These expectations already had been mounting during the last decade as it became clear global competitiveness requires a larger, more technically and scientifically skilled workforce, more knowledge-based firms, and faster and constant innovations.

It is that need for faster innovation and mounting scrutiny of all public expenditures that have sparked considerable policy discussion focused on universities serving as economic engines whether through commercializing technology, entrepreneurship education, attracting research dollars or myriad other approaches. The discussion has been heated at times, as certain issues draw opposing perspectives to be defended and advanced.

Until this year, the federal government has been largely on the sidelines not only from the action, but also the discussion of whether and how universities should be involved in encouraging economic growth. There are signs, though, that the federal absence from the game may be coming to an end.

Discussants:

Ginger Lew, Senior Counselor, White House National Economic Council & SBA, and Co-Chair, White House Innovation and Entrepreneurship Working Group

Tom Peterson, Assistant Director, Directorate for Engineering, National Science Foundation

Michael Cassidy, President and CEO, Georgia Research Alliance

10:15 AM - 10:45 AM Networking & Refreshment Break | Urban Room





Maximizing Equity Capital's Impact in Your Community 10:45 AM – 12:00 PM | Allegheny Room | 17th Floor

Research funded by the Ford Foundation indicates equity investments can perform well regardless of location (e.g., urban v. rural areas), with smaller investments outperforming larger ones. In addition, an increasing number of funds and organizations are striving to deepen equity capital's impact on communities while improving business performance by connecting investments with advanced advisory services to the companies and supporting economic development organizations. Together, these models mean successful equity investments can be made anywhere in the U.S. with the right support network. We'll learn how.

Presenters:

Patricia (Pat) Scruggs, President, Scruggs & Associates LLC Beth Sirull, Executive Director, Pacific Community Ventures



Technology Entrepreneurship: Direct Contact Required 10:45 AM - 12:00 PM | Hope Room | Mezzanine Level

Starting a successful business requires blood, sweat, tears and the right connections. Recognizing the need for intense and sustained assistance to put entrepreneurs on the right track, many organizations offer hands-on educational programs that guide entrepreneurs through the uncertain early stages of building a company. This panel discussion will examine how these programs advise, assist and connect a select group of entrepreneurs to help improve their odds of long-term success.

Presenters:

Ellen Hemmerly, *President & Executive Director*, UMBC Research and Technology Park **John Vidmar**, *Director*, The Transformation Business Services Network, The Ben Franklin Technology Partners



Economic Transformation through University-Business Partnerships 10:45 AM – 12:00 PM | Welk Room | Mezzanine Level

Research intensive universities can be a tremendous asset for technology-based economic growth. Leading states and regions have identified ways to leverage the strengths of multiple research institutions as well as the business community to obtain maximum value. This session will explore how one collaborative model is bringing universities and business together to create partnerships to transform their regional economies. We'll consider how the business community is working with the university community to create a shared agenda to leverage the assets of these institutions to benefit the overall economic prosperity of the region and state.

Presenters:

Jeff Mason, Executive Director, Michigan's University Research Corridor Doug Rothwell, President & CEO, Business Leaders for Michigan

Moderator:

Susan Shows, Senior Vice President, Georgia Research Alliance



SBA and TBED: New Developments, New Direction 10:45 AM - 12:00 PM | Monongahela Room | 17th Floor

In the last year, SBA has launched a set of new programs and initiatives, including support for cluster development, changes to the SBIC application process, the revival of the FAST program, and a request for information on mentoring and entrepreneurship education for high-growth companies. In this session, a senior SBA official will provide an update on what he and his colleagues at SBA have been working on and are planning for the future. With SBA pursuing a larger role in issues involving tech-based economic development, this session will provide an excellent chance to understand what lies ahead for SBA – and the opportunities presented for regional innovation strategies.

Presenter:

Sean Greene, Associate Administrator for Investment, Special Advisor for Innovation, U.S. Small Business Administration

SSTI Proudly Presents the 2010 Excellence in TBED Award Ceremony



Building on this year's conference theme, Accelerating Innovation: The Road Ahead for TBED, SSTI will present awards of excellence to organizations across the nation selected as best practice models for implementing innovative solutions to advance the field of technology-based economic development.

Join us to celebrate remarkable achievements by your peers in approaches to building and sustaining tech-based economies.

Following the ceremony, practitioners from the winning organizations will join together in a one-of-a-kind session revealing the inside stories to their success and weaving together common themes, practices, and lessons learned:

Achieving Excellence in TBED Wednesday, September 15 at 3:45 PM Allegheny Room

Previous *Excellence in TBED* **Award Winners**

Expanding the Research Capacity

James & Esther King Biomedical Research Program (2009) Georgia Research Alliance Eminent Scholars® (2007)

Commercializing Research

Washington Technology Center Research & Technology Development Program (2009) Maryland Technology Transfer Fund (2008) Georgia Research Alliance VentureLab (2007)

Building Entrepreneurial Capacity

TechColumbus TechStart Program (2009) SCLaunch (2008) Technology 2020 (2007)

Increasing Access to Capital

JumpStart Inc. (2009) Innovation Works Seed Fund (2008) Connecticut Innovations Eli Whitney Fund (2007)

Enhancing the Science & Technology Workforce

Connecticut Center for Advanced Technology Education Initiative (2009) Virginia Council on Advanced Technology Skills (2007)

Improving Competitiveness of Existing Industries

Innovation Works Innovation Adoption Grant Fund (2009)
Connecticut Center for Advanced Technology Manufacturing Supply
Chain Integration (2008)

The Maryland Industrial Partnerships Program (2007)



Hear podcasts
with previous
Excellence in TBED
Award winners at:
www.sstiawards.org.



TBED in Transition: A View from the Governors 2:00 PM - 3:15 PM | Grand Ballroom

SSTI selected Pittsburgh as the site for its Annual Conference, in part, because of the state's long and successful experience with tech-based economic development. Pennsylvania has been fortunate to have three decades of governors who have seen the connection between science, technology, innovation and economic growth.

SSTI is honored that three of Pennsylvania's governors are coming together in a rare, joint appearance to discuss their experience in promoting economic growth through science, technology, and innovation; share their insights on what the road ahead may present; and, offer advice on planning for a transition.

With at least 24 new governors assuming office in January, record pressure on state budgets, and a sluggish economy, getting the insights of a sitting governor and two former governors may well make this plenary session the single most relevant session at this year's conference as you contemplate what lies ahead for tech-based economic development and for your organization.

The Hon. Edward Rendell, Governor, Commonwealth of Pennsylvania

The Hon. Tom Ridge, President and CEO, Ridge Global LLC

The Hon. Dick Thornburgh, Counsel, K&L Gates LLP

Moderator:

Robert Atkinson, President, Information Technology and Innovation Foundation



The Hon. Edward Rendell



The Hon. Tom Ridge



The Hon. Dick Thornburgh



Robert Atkinson

3:15 PM - 3:45 PM Networking & Refreshment Break | Urban Room

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- Grant administration
- Performance measurement
- Annual reports

Visit us at the SSTI Conference to discuss how The Lytmos Group can help you get the most out of your grant dollars.





Regional Industry Clusters: Building Innovation-Based Entrepreneurship from the Bottom Up

3:45 PM - 5:00 PM | Hope Room | Mezzanine Level

Pennsylvania's Keystone Innovation Zones program defies easy description because it allowed the 29 designated zones across the state to identify the specific needs and custom strategies required to best support their local existing or emerging innovation clusters. As a result the KIZ program can point to many tremendous results and a few misteps. One key may be it forced a level of cooperation and collaboration among partners one imagines couldn't be attempted in some parts of the country – or could it? We'll explore how KIZs work, adapt and overcome obstacles and institutional differences to focus on their shared goal of supporting regional innovation-based companies.

Presenters:

Sheri Collins, *Program Manager*, KIZ Program and Technology Development Grant Program, Pennsylvania Department of Community & Economic Development

William Generett, Executive Director, Pittsburgh Central KIZ

Bomani Howze, *Program Officer*, The Heinz Endowments' Innovation Economy Program Stephen Schillo, *Vice President for Management and Business*, Duquesne University Bob Starzynski, *Director*, Innovation Adoption Grant Fund, Innovation Works, Inc.



■ Achieving Excellence in TBED

3:45 PM - 5:00 PM | Allegheny Room | 17th Floor

Developing and implementing a successful TBED initiative that generates substantial economic gain for a state or region is no easy feat in this economic climate. So how do some organizations continue to achieve a level of accomplishment that their peers feel worthy of recognition and honor? In this session, we'll use an intimate group interview format with some of the 2010 *Excellence in TBED* Award winners to learn how they maintain a solid record of results. We'll explore the lessons they learned along the way, the ways they measure impact and how they communicate their success to sustain their programs.

Discussion led by:

Peggy Shults, President & CEO, Lytmos Group, Inc.



The Road Ahead: The View from Legislators 3:45 PM - 5:00 PM | Welk Room | Mezzanine Level

Pressure on state budgets is at a historic high, and ultimately, it's going to be state legislators who will make the decisions on how limited resources are allocated. Whether you are part of a state program, funded by local government, or are at a university, state funding is going to have an impact on your program's operations. This session will provide the opportunity to get candid assessments from two legislators on what is needed to build support for tech-based economic development in this tough environment and what they see as the road ahead.

Presenters:

The Hon. John Gordner, Senator, Pennsylvania State Senate The Hon. Chuck Martin, Representative, Georgia House of Representatives

Moderator:

Josh O'Brien, Senior Business Development Manager, Biosciences, Greater Oklahoma City Chamber



Building Private Business Support and Involvement in Your TBED Strategy 3:45 PM - 5:00 PM | Monongahela Room | 17th Floor

Very often, the most effective advocate for directing public resources toward innovation, science and technology commercialization is the private sector – the technology businesses who are expected to produce the economic results sought in a knowledge economy. Technology associations, councils and networks are particularly important when traditional business groups in the community may be mired in traditional, tired approaches to economic growth. With the goal of forging closer collaborations between regional TBED efforts and their client communities, we'll discuss how strong regional technology councils can be your best allies, best critics and most important partners for designing a strategy or program, for delivering services directly to the target business community, and for advancing an effective TBED agenda within city, state or federal legislative bodies.

Discussants:

Charles DeVries, Director of Government Affairs, Automation Alley Tino Mantella, President & CEO, Technology Association of Georgia Reneé Winsky, CEO, Tech Council of Maryland

Discussion led by:

Mark Skinner, Vice President, SSTI



Translating that big idea into a commercial endeavor requires knowledge and planning. Resources abound to help you build your dream, but how do you know which best supports your individual strategy?

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Meditation 5:00 PM - 5:40 PM | Wednesday, September 15 Sky Room | 17th Floor (optional)

A new addition this year! Always crave a little quiet, calming down time by yourself while attending bustling conferences? Wondered what people actually do when they meditate or just curious to try it? We will offer a soothing, guided, nonsectarian meditation session immediately following the afternoon breakouts – allowing you to join the National Innovation Reception centered, refreshed and ready to fully re-engage with your peers. No special attire or physical ability required and chairs will be available for those who prefer. Beginners encouraged.

National Innovation Reception 5:00 PM - 7:00 PM Wednesday, September 15 Urban Room | 17th Floor

The buzz is always contagious and networking takes center stage at SSTI's annual National Innovation Reception. The early evening affair provides the opportunity to continue conversations begun earlier in the day, reconnect with old friends, visit our exhibiting sponsors, and begin new relationships. With light hors d'oeurves and a hosted bar, the reception provides the perfect opportunity to unwind in a lively setting, exchanging ideas and business cards.

Dine A-Round Pittsburgh 7:00 PM Wednesday, September 15 (Optional)

The Dine A-Round is a great time to take a break from learning and network with old and new friends over dinner in some of Pittsburgh's finest restaurants. With the conference in the heart of downtown Pittsburgh, this year's Dine A-Round features nearby restaurants for varied tastes and price points. Reservations have been made for Wednesday, 7:00 PM immediately following the National Innovation Reception for parties of eight (separate checks will be provided at August Henry's Café Euro and the Grand Concourse; other locations will not provide separate checks).



Accelerating Growth in Northeast Ohio's Technology Industries

Who We Are:

NorTech is a regional nonprofit technology-based economic development organization serving 21 counties in Northeast Ohio.

What We Do:

NorTech develops regional innovation clusters that create jobs, attract capital and have a long-term, positive economic impact on Northeast Ohio. NorTech leads cluster development efforts by:

- Creating roadmaps that define a shared vision.
- Engaging with government officials to expand state and federal funding.
- Reporting and utilizing data that influences cluster growth.
- Building relationships among cluster members and attracting new members to the cluster.

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To learn more about NorTech, visit: www.nortech.org

Morning Hatha Yoga | 6:30 AM | Sky Room (see page 12)

Morning 5K Run/Walk | 6:30 AM | Hotel Lobby (see page 12)

Breakfast | 8:00 AM | Grand Ballroom



Financing TBED: Alternative Models and Sustainability 9:00 AM - 10:15 AM | Monongahela Room | 17th Floor

Mid-year rescissions, furloughs and the uncertainty of annual appropriations is no way to develop a long-term economic recovery strategy. Analysts say the fiscal environment in most state and local governments as well as universities will remain constrained for the next two years – at a minimum. There are alternatives to annual appropriation battles – and an increasing number of states and communities are implementing some more creative ways to support and sustain their TBED portfolios. In this session, we'll profile SSTI research on the broad range of options being used across the country before focusing on one of the more lucrative, long-term models for financing TBED: securing voter approval for bonds, sale taxes and other referenda.

Presenters:

Rob Ksiazkiewicz, Policy Analyst, SSTI

David Wilhelm, Founding Partner, Hopewell Ventures and Adena Ventures



The Federal Innovation Agenda and Your TBED Strategy 9:00 AM – 10:15 AM | Welk Room | Mezzanine Level

Perhaps not since 2000 have state, regional and university TBED programs and policymakers been more interested in what Congress and the federal government will do next to support – or hinder – the innovation strategies that have been in place for decades outside the nation's capital. The need for new financial resources is top among interests for many looking to Washington, but there is opportunity for a more collaborative partnership – particularly as federal purse strings are likely to tighten too in coming years. We'll discuss what we've learned from the federal agencies during the conference and how to mesh federal opportunities and interests with our state and regional innovation portfolios.

Discussion facilitator:

Rebecca Bagley, President & CEO, NorTech



Distributed, Non-University Models for Commercializing New Technologies 9:00 AM - 10:15 AM | Allegheny Room | 17th Floor

The debate over university technology commercialization persists in the media and nation's ivory towers, think tanks, and halls of government. Meanwhile there are organizations across the country that are not affiliated with universities that are proving quite successful at helping startup, small and mid-sized firms to commercialize technology regardless of its source – academic, federal lab, industry, or their own garages. The models may vary, but the results are the same: viable tech companies moving innovation into the marketplace. We'll learn more about the different models for success, some that have been around for years.

Presenters:

Duane Roth, CEO, CONNECT

Rick Ritter, Chief Executive Officer and President, Idaho TechConnect, Inc.

Moderator:

Mark Skinner, Vice President, SSTI

10:15 AM - 10:45 AM Networking & Refreshment Break | Urban Room

State tech deployment purse thin? **GAMBIT** has helpful resources.

NCOE helps centers of excellence, states, institutions of higher education, non-profits and many government agencies to promote the development, transfer, funding and successful *DEPLOYMENT of new technologies* across all industry segments, especially small and medium-sized manufacturing. That takes MONEY. Discover how NCOE's new GAMBIT CENTER can help you access more of the kinds of resources you need to meet your own technology commercialization and SUSTAINABLE new product deployment goals.



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The **NCOE** is a division of WestCAMP, Inc., a 501(c)(3) organization, and founder of MEP-Utah.

TRENDS IN TBED: WHAT'S THE ROAD AHEAD? 10:45 AM – 12:00 PM | Grand Ballroom

With heightened global competition, a still changing capital market, enormous fiscal challenges for all levels of government, and political transitions set to occur with the upcoming elections, the issues confronting technology-based economic development (TBED) have never been as challenging for policymakers and practitioners as they are now.

If past history is any indicator, however, those who are prepared to recognize and seize the opportunities presented in such challenging times will have an unparalleled chance to improve economic growth through science, technology and innovation.

SSTI's 14th Annual Conference will wrap up with this capstone session examining the latest trends affecting TBED, the most daunting challenges, the most promising opportunities, the implications and issues for TBED policymakers and practitioners, and a discussion of what road lies ahead for TBED.

Aided by instant polling and active audience participation, SSTI's President and CEO will lead this engaging session, a perennial favorite for regular conference attendees.

Presenter:

Dan Berglund, President & CEO, SSTI

Please note: The conference adjourns at noon.

ABOUT SSTI

SSTI is a national, nonprofit organization that leads, supports and strengthens efforts to improve state and regional economies through science, technology, and innovation. As the most comprehensive resource available for those involved in technology-based economic development, SSTI offers practitioners and policymakers the information and services they need.

With more than 170 members, SSTI serves as the voice for the techbased economic development community. If you care about encouraging economic growth through science, technology, and innovation, SSTI is your home.

Join SSTI

SSTI is more relevant than ever to your work. Interest in innovation and tech-based economic development is increasing dramatically across the country, and SSTI can get you the information, the answers, and the connections to the resources that you need. We make sure our members are alerted to the latest news. E-blasts, conference calls with federal officials, and special analyses are just some of the ways SSTI ensures its members have the latest, most accurate information.

SSTI represents your point of view. SSTI works to ensure Washington understands the needs and activities of the tech-based economic development community. Just this year, SSTI led the effort to respond to the White House RFI on Commercializing University Research and to the SBA RFI on Entrepreneurial Mentoring and Education.

SSTI members receive key funding opportunities. Only SSTI members receive the exclusive Funding Supplement to the SSTI Weekly Digest, describing new federal and foundation R&D and TBED funding announcements each week. Over the past year, SSTI members have been alerted to more than 1,400 funding opportunities for their client companies, researchers and own organizations.

SSTI membership saves you money. SSTI members receive a substantial savings on registration fees, can post unlimited job postings at no expense, and receive discounts on the Excellence in TBED awards applications.

So how do you sign up?

Just ask an SSTI staff member or stop by the registration desk and pick up a membership packet for the full list of membership benefits and a registration form.



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pioneer in technology-based economic development for more than 25 years and is currently one of the nation's most active investors in seed-stage technology

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paying highly skilled technology jobs. http://www.newpa.com

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The **National Centers of Excellence** (NCOE) is a division of 501(c)(3) WestCAMP. NCOE is developing the GAMBIT Center, a needs-driven technology deployment capability. GAMBIT is part of a much larger initiative to develop over \$3 billion in annual federal match for state-funded technology commercialization. The Federal Acceleration of State Technologies (F.A.S.T.) program focuses on matching emerging technologies with the needs of small to medium-sized manufacturers in regional economies. www.gambitcenter.org



Exhibiting Sponsors

The Federal Laboratory Consortium for Technology Transfer (FLC) is a nationwide network of federal laboratories and is the only government-wide forum for technology transfer. The FLC provides the framework for developing T2 strategies and collaborative opportunities by promoting and facilitating technical cooperation with industry, academia, state & local governments, TBED organizations, and other federal laboratories. www.federallabs.org



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The **National Energy Technology Laboratory** implements a broad spectrum of energy and environmental R&D programs targeting fossil fuel production and use. Through federal research and managed funding, our efforts promise to benefit generations to come. www.netl.doe.gov



The National Institute of Standards and Technology's Manufacturing Extension Partnership Program (MEP) is a national network with hundreds of specialists who understand the needs of America's small manufacturers and small businesses. Collectively, we are America's #1 resource for helping manufacturers compete against low price competition. MEP provides companies with services and access to public and private resources that enhance growth, improve productivity, reduce costs, and expand capacity. www.mep.nist.gov



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Exhibiting Sponsors, continued

The **Technology Innovation Program** (TIP) was established in 2007 "to support, promote, and accelerate innovation in the United States through high-risk, high-reward research in areas of critical national need." The program funds small and medium-sized businesses, universities, and research consortia on a competitive, cost-share basis for research on potentially revolutionary technologies for meeting critical national needs that present high technical riskswith commensurate high rewards if successful. www.nist.gov/tip

USDA Rural Development administers and manages more than 40 housing, business and community infrastructure and facility programs through a network of 6,100 employees located in 500 state and local offices. These programs are designed to improve the economic stability of rural communities, businesses, residents, farmers and ranchers and improve the quality of life in rural America. Rural Development has an existing portfolio of more than \$138 billion in loans and loan guarantees. www.rurdev.usda.gov

Speakers Lounge Sponsor

The **National Science Foundation** supports basic scientific and engineering research and promotes science and engineering education. The National Science Foundation also helps to foster and encourage the translation of new knowledge generated through basic research into processes, products and methodologies with significant economic or societal impact on the nation's health, prosperity, welfare, and defense. www.nsf.gov

Networking Break Sponsor

NorTech, a regional nonprofit technology-based economic development organization, is a catalyst for growing Northeast Ohio's technology industries. By accelerating commercial activity, marshaling resources, and forging collaborations, NorTech is leading an effort to build regional technology clusters in Northeast Ohio that will create jobs, attract capital and have a long-term, positive economic impact on the region. www.nortech.org

Lanyard Sponsor

ASME's Center for Engineering Entrepreneurship & Innovation (CEEI) seeks to promote engineering entrepreneurship and innovation as both a critical resource for technological competitiveness and as a solution for the shrinking science, engineering, and technology workforce pipeline. www.asme.org/communities/entrepreneur



Friends of TBED

The **Georgia Research Alliance** is a private, non-profit organization that brings together the state's academic, industry and government leaders to grow Georgia's economy through scientific discovery. Key programs are recruitment of top scientific talent (GRA Eminent Scholars), development of centers of research excellence, and commercialization of university R&D (GRA VentureLab). www.gra.org



Idaho National Laboratory is a U.S. Department of Energy multiprogram research and development laboratory serving at the nexus of energy supply and security. Beyond its assigned lead role in nuclear energy, INL has a heritage of developing and delivering innovative national and homeland security technologies, protective environmental measures, and clean energy initiatives. www.inl.gov



Oak Ridge National Laboratory (ORNL) is the Department of Energy's (DOE) largest science and energy laboratory. With a budget of \$1.65 billion and nearly 4,800 employees, ORNL is home to the world's most powerful open scientific computing capability. ORNL also houses the world's most intense pulsed neutron source, the nation's largest concentration of open source materials research and two of DOE's largest research projects. www.ornl.gov



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Carnegie Mellon University

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Local Conference Sponsors

Ben Franklin Technology Partners CNP, an initiative of the Pennsylvania Department of Community and Economic Development and funded by the Ben Franklin Technology Development Authority, provides capital & operational assistance to tech-based start ups and small manufacturers in 32 counties across PA. The purpose of the Program is to promote innovation and create/retain technology jobs in Pennsylvania. www.cnp.benfranklin.org

Ben Franklin Technology Partners of Northeastern Pennsylvania links companies with experts, universities, funding, and other resources to help them prosper through innovation. Ben Franklin's strategy encompasses three key areas: developing early-stage, technology-oriented companies; helping established manufacturers creatively apply new technologies and business practices; and promoting an innovative community-wide infrastructure. www.nep.benfranklin.org

Ben Franklin Technology Partners of Southeastern Pennsylvania (BFTP/SEP) is the region's catalyst for Stimulating Entrepreneurial Potential. We provide entrepreneurs and established businesses with the Capital, Knowledge and Networks to compete in the global marketplace. BFTP/SEP is part of the Commonwealth of Pennsylvania's Ben Franklin Technology Partnership. www.sep.benfranklin.org

BioAdvance has committed \$17.5M to 42 seed-stage companies and projects. BioAdvance investments have enabled its portfolio companies to leverage almost \$1B in subsequent capital into the region from private equity, grants, collaborations and M&A activity. BioAdvance portfolio companies are developing products to treat significant health problems. Six companies have been acquired. www.bioadvance.com

Carnegie Mellon University is an internationally ranked university with leading programs in engineering, computer science, business and the arts. Home to 17 Nobel Prize recipients and dozens of Oscar, Emmy and Tony winners, Carnegie Mellon is also a national leader in generating new technology companies. www.cmu.edu

The **Claude Worthington Benedum Foundation** was established in 1944 by Michael and Sarah Benedum, natives of West Virginia. Grants are made to support initiatives in West Virginia and Southwestern Pennsylvania. Assets at year-end 2009 were just over \$341,000,000. Please visit the Foundation's website at www.benedum.org for more information.

Duquesne University is a private, coeducational university with more than 10,000 students. An extensive selection of undergraduate and graduate degree programs is offered across 10 schools of study. Duquesne is consistently ranked among the nation's top Catholic universities for its award-winning faculty and 132-year tradition of academic excellence. www.duq.edu

The **Economic Development Administration** (EDA) Mission: "To lead the federal economic development agenda by promoting innovation and competitiveness, preparing American regions for growth and success in the worldwide economy." EDA assistance is available to rural and urban areas of the nation experiencing high unemployment, low income, or other severe economic distress. www.eda.gov

Fourth Economy Consulting is an economic development solutions provider specializing in innovation-based strategies, green economy opportunities and market intelligence. We help our clients achieve their market potential in a competitive, modern economy. www.fourtheconomy.com

The **Greater Oakland Keystone Innovation Zone** (GO KIZ) is focused on increasing technology company formation, location and growth in the region by leveraging the assets of the University of Pittsburgh, University of Pittsburgh Medical Center (UPMC) and Carnegie Mellon. www.gokiz.org

The **Heinz Endowments** supports efforts to make southwestern Pennsylvania a premier place to live and work, a center for learning and educational excellence, and a region that embraces diversity and inclusion. www.heinz.org

Idea Foundry is a not-for-profit 501(c)(3) corporation serving Western Pennsylvania. Our mission is to increase the number of higher-wage jobs by transforming innovative technologies into viable businesses. We do this by helping entrepreneurs launch companies and by facilitating technology transfer activities in established organizations. www.ideafoundry.org

The Pennsylvania Industrial Resource Center (IRC) Network represents the seven Industrial Resource Centers (IRCs) located strategically throughout the Commonwealth of Pennsylvania. The IRCs provide technical assistance to small and medium sized manufacturers by applying advanced management, production philosophies and techniques to advance the companies and strengthen their global competitiveness. www.pairc.net



























Local Conference Sponsors, continued

Life Sciences Greenhouse of Central PA (LSGPA) is public/private venture whose mission is to stimulate wealth creation and enhance human health through commercialization of life sciences technologies. In addition to up to \$1 million in pre seed- and seed-stage funding, LSGPA provides targeted business support services and connections to strategic partners. www.lsgpa.com

Penn State is a leading research institution with \$765 Million of annual research expenditures, including \$103 Million in industry-sponsored research. Penn State is the top academic institution for materials research and Department of Defense research, based on expenditures, and has been ranked 1st among universities worldwide for leadership in multidisciplinary alternative energy research by the Elsevier Press. www.techtransfer.psu.edu

The **Pittsburgh Life Sciences Greenhouse** (PLSG) provides capital investments and customized company formation and business growth services to our region's life sciences enterprises. We support biosciences companies with promising innovations in the following concentrations: Biotechnology Tools, Diagnostics, Healthcare IT, Medical Devices and Therapeutics. www.plsg.com

The **Richard King Mellon Foundation** invests in the competitive future and quality of life in Southwestern Pennsylvania, and in the protection, preservation, and restoration of America's environmental heritage. The Foundation was created in 1947 by Richard King Mellon (1899 – 1970). http://foundationcenter.org/grantmaker/rkmellon/index.html

Robert Morris University, founded in 1921, is a private, four-year institution with an enrollment of approximately 5,000 undergraduate and graduate students. The university offers 60 undergraduate and 20 graduate programs. An estimated 22,000 alumni live and work in western Pennsylvania. www.rmu.edu

Team Pennsylvania Foundation is a dynamic, public/private partnership that initiates and supports innovative programs to improve the state's competitiveness and economic prosperity. The Foundation's accomplishes this by focusing on business attraction and growth, education and workforce development and improving government efficiency. www.teampa.com

The **TechBelt Initiative** began as a regional conversation about developing a strategy to reinvigorate the Cleveland-to-Pittsburgh region. The mission of the TechBelt is to accelerate the region's ongoing economic transformation by identifying and facilitating technology-based collaborative partnerships and leveraging its unique and high-value assets. www.techbelt.org

UPMC melds an unwavering community mission with entrepreneurial business models to take medicine from where it is, to where it should be. Through its care delivery system, to its health plan, and through its business ventures, UPMC is transforming our region's economy to one based on medicine, technology, and innovation.www.upmc.com

UPMC Health Plan is owned by UPMC, one of the nation's top-ranked health systems. As part of an integrated health care delivery system, UPMC Health Plan partners with UPMC and community network providers to improve clinical outcomes as well as the health of the greater community. www.upmchealthplan.com

University of Pittsburgh Office of Technology Management, Partner with Pitt and expect a dynamic convergence of brilliant, visionary minds. Collaborate with Pitt's world-class researchers and expect exciting innovations built upon pioneering research and state-of-the-art facilities. Pursue research excellence with Pitt and expect world-changing results. www.otm.pitt.edu

The **Urban Redevelopment Authority of Pittsburgh** (URA) is the City of Pittsburgh's economic development agency. Our goals are to create jobs, increase the city's tax base, and improve the vitality of businesses, neighborhoods, and the City's livability as a whole. www.ura.org

Wellspring Worldwide provides solutions for today's innovation economy. Our Sophia knowledge management software empowers organizations to manage all aspects of technology commercialization while Flintbox® is the world's largest community for investors, entrepreneurs, and researchers to share technologies, patents, and research interests. Our tools build communities. www.wellspringworldwide.com













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Robert Atkinson

Rob Atkinson is the founder and President of the Information Technology and Innovation Foundation, a Washington, DC-based technology policy think tank. Dr. Atkinson is also author of the "State New Economy Index" series and the book, "The Past and Future of America's Economy: Long Waves of Innovation that Power Cycles of Growth." He has an extensive background in technology policy, has conducted ground-breaking research projects on technology and innovation, is a valued adviser to state and national policymakers, and is a popular speaker on innovation policy nationally and internationally. Before coming to ITIF, Dr. Atkinson was Vice President of the Progressive Policy Institute and Director of PPI's Technology & New Economy Project, where he wrote numerous research reports on technology and innovation policy. Previously, Dr. Atkinson served as the first Executive Director of the Rhode Island Economic Policy Council, a public-private partnership including as members the governor, legislative leaders, and corporate and labor leaders. Prior to that he was Project Director at the former Congressional Office of Technology Assessment. He received his Ph.D. in City and Regional Planning from the University of North Carolina at Chapel Hill. Dr. Atkinson is a member of the Board of Trustees of SSTI.

Rebecca Bagley

Rebecca Bagley is President and Chief Executive Officer of NorTech, a regional nonprofit technologybased economic development organization that serves 21 counties in Northeast Ohio. As a catalyst for growing Northeast Ohio's technology industries, NorTech is leading an effort to develop regional technology clusters that will spur job creation, capital attraction, and long-term positive economic impact. Ms. Bagley joined NorTech in July 2009, bringing a wealth of experience and leadership as a nationally recognized expert in technology-based economic development. She leads the organization's effort to develop regional technology clusters and make the region's economy more economically diverse by supporting and nurturing Northeast Ohio's most promising technology projects and initiatives. Ms. Bagley connects with regional, state and federal government leaders to raise the visibility of Northeast Ohio's technology assets and drive funding to the region. Recently, Ms. Bagley and her team launched a foundation-funded \$1.7 million advanced energy initiative to work with public and private sector partners to accelerate commercial activity in the region's advanced energy industry. Previously, Ms. Bagley served as Deputy Secretary for the Technology Investment Office of the Pennsylvania Department of Community and Economic Development (DCED) where she was responsible for the administration of several major state initiatives with a total of \$79 million in yearly appropriations and more than \$1.7 billion in investments. She also managed the passage of \$650 million for Pennsylvania's Energy Independence Fund. She also served previously as Director of Venture Investment for DCED and managed venture and real estate investment programs. Before joining DCED, Ms. Bagley worked for several investment banks, most notably JPMorgan Chase, where she advised energy and technology companies on merger and acquisitions and raising capital in the high-yield-bond group and oil and gas group. She serves on several boards and advisory councils including the National Association of Seed and Venture Funds (NASVF), SSTI, BioEnterprise, Sustainable Cleveland 2019 Advisory Council, OneCommunity, Ohio Technology Partnership, TechLift Advisory Board, TechBelt Executive Committee, Ohio Agricultural Research and Development Center Advisory Board, and Ohio Wright Center for Sensor Systems Engineering. Ms. Bagley holds a Bachelor of Science degree from the University of Colorado at Boulder.

Phillip Battle

Phillip Battle is a policy analyst for SSTI. Mr. Battle writes for the *SSTI Weekly Digest* and maintains SSTI's web sites and email publications. Prior to joining SSTI, he served as a student consultant for the Texas Emerging Technology Fund. As part of his Master's report, Mr. Battle prepared an overview of that program with recommendations based on the practices of other state high-tech venture funds. He also has worked as a graduate research assistant at the IC2 Institute in Austin, as a staff researcher and writer for the Central Texas High School Data Center, and as a member of the 2006 World Congress on Information Technology policy research team. Mr. Battle holds a M.P.Aff. from the LBJ School of Public Affairs at the University of Texas at Austin.

Dan Berglund

Dan Berglund is the President and CEO of SSTI, a nonprofit organization that leads, supports, and strengthens efforts to improve state and regional economies through science, technology, and innovation. SSTI is the most comprehensive resource available for those involved in technology-based economic development. Leading SSTI since its inception in 1996, Mr. Berglund has helped SSTI develop a nationwide network of practitioners and policymakers dedicated to improving the economy through science, technology and innovation. SSTI works with this network to assist states and communities as they build tech-based economies, conduct research on best practices and trends in tech-based economic development, and encourage cooperation among and between state and federal programs. Prior to joining SSTI, Mr. Berglund worked as a consultant and for the Ohio Department of Development in a variety of positions, including Acting Deputy Director of the Division of Technological Innovation.

Michael Cassidy

Michael Cassidy is President of the Georgia Research Alliance, a partnership of six research universities and the business community working with state government to build the environment to nurture the growth and development of the technology sector of the Georgia economy. Before joining the Alliance in 1993, Mr. Cassidy managed the Advanced Technology Development Center based at Georgia Tech, one of the nation's oldest technology incubators. Prior to that he worked for the IBM Corporation where he held various staff and management positions. Mr. Cassidy consults with several states on issues of science and technology policy. He represents Georgia on the Southern Technology Council and the Southern Governors' Association Advisory Committee on Research, Development and Technology and also serves on the SSTI Board of Trustees.

Sheri Collins

A 24-year public servant of the Commonwealth of Pennsylvania, Ms. Collins serves as a Technology Investment Specialist within the Department of Community & Economic Development's Technology Investment Office. For the past six years, she has played an integral role in the development of the state's ground-breaking Keystone Innovation Zone (KIZ) program, overseeing the designation of 29 KIZs as well as the deployment and management of over \$13 million in operational funds. The KIZ program was a vital component of Pennsylvania Governor Ed Rendell's 2004 Economic Stimulus package. This

multi-faceted program was designed to retain the state's talented graduates, improve and encourage Pennsylvania's research and development efforts, technology commercialization and entrepreneurship programs while providing a tradable tax credit to KIZ companies participating in the program. Prior to her joining the Technology Investment Office, Ms. Collins served as the Special Assistant to the Chief Counsel of the \$25 billion Pennsylvania State Employees' Retirement System.

Deborah Cummings

Deborah Cummings is the Assistant Director of the Technology and Innovation Division within the Ohio Department of Development. The division works to shape the future economy of the state through a balanced portfolio of programs to support research and commercialization, entrepreneurial assistance, cluster development, and expansion of Ohio's talent pool. The division is responsible for the strategic development, management, and administration of the Ohio Third Frontier, Ohio's Thomas Edison Program, the Ohio Venture Capital Authority, and Ohio's Technology Investment Tax Credit Program. Ms. Cummings' business career has encompassed both the private and public sectors, and has been comprised of technology-based economic development strategic planning, economic impact analyses, program assessments, best practice methodology, and science and technology policy. Prior to joining the state of Ohio, Ms. Cummings spent ten years with Battelle's Technology Partnership Practice, a consulting team that focuses Battelle's broad experience and capabilities to better serve private industry, state and local governments, universities, and nonprofit technology organizations in designing, implementing, and assessing technology to improve the economic vitality of a region. Ms. Cummings earned her M.B.A. from The Ohio State University and her Bachelor of Business Administration and Bachelor of Arts in Political Science from Ohio University.

Charles DeVries

Charles DeVries has 15 years of government and community affairs experience with a focus on economic development, entrepreneurship and higher education. As Director of Government Affairs, Mr. DeVries plays an integral role in the creation and management of economic development programs for Automation Alley, Michigan's largest technology business association. He interfaces with government agencies and officials, the Michigan Economic Development Corporation and Automation Alley's 1,000 member organizations to launch high-growth, early stage tech firms and to promote sustainable economic growth in Michigan's technology sector. Mr. DeVries began his public service career working for U.S. Congressman Fred Upton (MI-6) in 1995. His career continued in the President's Office at Western Michigan University, where he helped manage the state and federal appropriations process as Assistant Vice President for Legislative Affairs and promoted the university's research and legislative agendas in Lansing and Washington. As an active member of the community, Mr. DeVries co-chaired two United Way campaigns at Western Michigan University, raising more than \$200,000 in each. In 2004, he was appointed to the Board of Directors at Great Oaks Public School Academy in Warren, where he currently serves as Vice President. Mr. DeVries holds a Bachelor's degree in Political Science from Western Michigan University.

William Generett

William Generett is the Executive Director of the Pittsburgh Central Keystone Innovation Zone (PCKIZ). He provides broad based leadership for the PCKIZ, a consortium of 16 institutions of higher education, businesses, governmental entities, nonprofits and foundations, in stimulating the growth of regional

technology-based industries and economic development within the commercially zoned areas of the Hill District, Uptown, Northside, Southside and downtown neighborhoods of the city of Pittsburgh. Until December 2009, Mr. Generett simultaneously worked as the Director of the Hill House Economic Development Corporation (HHEDC), where he provided leadership with both the evaluation and implementation of social entrepreneurial ventures. Mr. Generett's career includes that of an entrepreneur, corporate executive and an attorney. He was the founder and president of a non-medical homecare company, where he managed 40 employees who provided services to over 100 clients throughout Allegheny County; served as the Vice President of legal staffing and recruiting for one of the nation's largest legal staffing agencies; and for six years, practiced law in various capacities as a law clerk, associate and senior associate with a real estate and corporate law firm in Atlanta, Georgia. Mr. Generett is an active member of the Pittsburgh community where he serves on several boards and advisory commmittees, including Pittsburgh Economic and Industrial Development Corporation, The Green Innovators, and the City of Pittsburgh Urban Redevelopment Authority Technology Loan Fund Advisory Committee, among numerous others. Mr. Generett earned a Bachelor's degree in Political Science and Spanish from Morehouse College, received his Juris Doctorate from Emory University, and is licensed to practice law in the states of Pennsylvania and Georgia.

The Honorable John Gordner

Senator John Gordner was first elected to the Pennsylvania Senate in a special election in November 2003 and was re-elected in 2004 and 2008 to represent the 27th Senatorial district, which includes all of Columbia, Northumberland, Montour and Snyder counties and part of Luzerne and Dauphin counties. Senator Gordner serves as Chairman of the Labor and Industry Committee and Vice Chairman of the Consumer Protection and Professional Licensure Committee. He also serves on the Appropriations Committee; Community, Economic and Recreational Development Committee; Judiciary Committee; and the Transportation Committee. Prior to his election to the Senate, Senator Gordner served for 11 years in the Pennsylvania House of Representatives. During his service in the General Assembly, he has been active in advancing many economic development projects that have helped area businesses create thousands of jobs for district residents. As a member of the Ben Franklin Technology Development Authority, Senator Gordner has promoted the technology industry and economic development. He was instrumental in the Authority's approval of the Greater Susquehanna Keystone Innovation Zone, which is bringing high-tech jobs to the 27th district. Senator Gordner also has assisted companies throughout the area in job creation projects. He has been named Legislative Advocate of the Year by the Small Business Development Centers, and also has been honored with the National Federation of Independent Businesses Guardian of Small Business Award. He is a past recipient of the Adam Smith Leadership Award by Economics Pennsylvania, a statewide organization that promotes financial literacy programs in public and private schools. Senator Gordner is involved in his community, serving as a member of the statewide Board of Economics Pennsylvania, among numerous other organizations. Senator Gordner earned his Bachelor's degree from Dickinson College in 1983, and earned his law degree from the Dickinson School of Law in 1987.

Sean Greene

Sean Greene is the Associate Administrator for Investment, and Special Advisor for Innovation at the U.S. Small Business Administration. He brings 20 years of experience as an entrepreneur, investor, and business strategist to the SBA. He was the founder and CEO of Away.com, an online travel company that he sold to Orbitz. He was also a Co-Founder of Rock Creek Ventures and LaunchBox Digital, a seed stage investment firm in Washington, D.C. Previously, he was a management consultant with McKinsey and Co. Mr. Greene holds an A.B. from Princeton University, an M.B.A. from Yale's School of Management, and also was a Fulbright Scholar at the National University of Singapore.

Ellen Hemmerly

Ellen Hemmerly is Executive Director and President of the UMBC Research Park Corporation and Special Assistant to the Vice President for Institutional Advancement at University of Maryland Baltimore County (UMBC). She is responsible for managing the development of a high-technology research and technology park, which includes an incubator, accelerator and research park. She also is a co-principal investigator of ACTiVATE ®, a technology commercialization program. The UMBC Research and Technology Park currently houses 50 companies including 24 incubator companies and 9 emerging technology companies with access to faculty research collaborations, student workers, specialized technology training programs, and a full range of business services including access to experienced entrepreneurs and funding. ACTiVATE ® is a regional technology commercialization program geared toward professional women that produced 24 startup companies in its first four years of operation. Ms. Hemmerly sits on numerous boards, including the Greater Baltimore Technology Council, New Markets Venture Fund, Maryland Business Incubator Association and Research Parks Maryland. She is past President of AURP, the Association of University Research Parks and has received numerous awards and recognitions, including in 2009, when she was elected by The Daily Record as one of Maryland's Top 100 Women. In 2008, the UMBC Research and Technology Park incubator and accelerator were honored with the County Executive's New Direction Award for exemplifying the quality of Baltimore County Businesses in the future. Prior to joining UMBC, Ms. Hemmerly was a Vice President at the Baltimore Development Corporation (BDC) serving as its Senior Lender and Director of the Enterprise Development Fund, where she successfully started up the city's first business incubator and spent two years as a business development officer marketing Baltimore to high technology businesses. Prior to joining BDC, Ms. Hemmerly was an Associate with K.S. Sweet Associates, a real estate advisory and development firm, and TDH, a venture capital firm. Ms. Hemmerly holds a B.S. in Mathematics from Moravian College and a M.B.A. from Cornell University's Johnson School of Management.

Bomani Howze

Bomani Howze is the program officer for Innovation Economy at The Heinz Endowments. In this role he is responsible for a multi-million dollar grant-making portfolio designed to break the cycle of intergenerational poverty in the Pittsburgh region by expanding economic opportunity. The strategy he has developed is a long-term effort to reduce persistent racial economic disparities by strengthening each of the components that contribute to wealth creation. Taking a holistic approach that is framed within an African American cultural ethos, the goal is to enable control and ownership of land, financial institutions, businesses and homes within a full-circle group economy. A particular emphasis is to provide support for urban businesses and the entrepreneurs who lead them. In earlier positions, Mr. Howze has served as a nonprofit executive, a small business entrepreneur and an elected community leader. He began his professional career as a public school teacher selected to help implement an innovative, year-round curriculum in an economically depressed neighborhood in Norfolk, VA. During his tenure the school realized dramatic improvements in student achievement, and Mr. Howze later introduced some of the same reforms within an African-centered public school curriculum in Pittsburgh. He has served as vice president of the Pittsburgh chapter of the National Black MBA Association, president of the Three Rivers Investment Club, and elected keynote speaker for Leadership Pittsburgh XXV. Howze was appointed by Governor Ed Rendell and serves on the Pennsylvania Minority Business Development Authority. In 2009, Mr. Howze was invited to present his work at a conference on regional innovation clusters at the National Academies in Washington, DC. Mr. Howze earned his Bachelor's degree at Norfolk State University in Virginia and his M.B.A. at Point Park University in Pittsburgh. As an interdisciplinary International Studies Fellow, he worked with education programs in Venezuela, Brazil, South Africa, Kenya, India, Vietnam, Taiwan, Hong Kong and Japan.

James Jordan

Jim Jordan joined the Pittsburgh Life Sciences Greenhouse (PLSG) in 2005 and is an officer of the company. He is an accomplished Fortune 20-level executive with strong experience in industry, consulting and academia. A recognized expert in market development and guiding the successful formation of entrepreneurial startup businesses in the life sciences industry, Mr. Jordan became Vice President and Chief Investment Officer in 2007. Prior to joining the PLSG, Mr. Jordan served as Senior Vice President of a \$3 billion division of McKesson Corporation, a leading distributor of healthcare systems, medical supplies and pharmaceutical products, and as a Vice President for Marketing at Johnson & Johnson, one of the world's largest consumer products and healthcare companies. He has held a range of management positions in sales and marketing, operations, supply chain management, information technology, finance and quality assurance with several Fortune 500 medical device companies including C.R. Bard, Inc. and Boston Scientific, Inc. Mr. Jordan has leveraged this experience in several startup ventures and is active on several Boards of Directors. His experience also includes consulting engagements with numerous companies such as Medtronic, Frost & Sullivan. Circuit City, Philip Morris, Northrop Grumman, Schwartz Pharmaceutical and Otsuka Pharmaceutical. He previously served as an Adjunct Associate Professor at the University of Richmond and is currently a Distinguished Service Professor of Biotechnology Management and the Director of the Master of Science in Biotechnology Management at Carnegie Mellon University. Mr. Jordan holds a Bachelor of Science Degree in Business Administration from Merrimack College and a Master's in Business Administration from Boston University.

Rob Ksiazkiewicz

Rob Ksiazkiewicz is a policy analyst for SSTI, where his duties include writing articles for the *SSTI Weekly Digest* and helping to maintain SSTI's web sites and email publications. Prior to joining SSTI, Mr. Ksiazkiewicz worked with GSP Consulting in Pittsburgh, PA. At GSP, he conducted research and aided in the preparation of reports on technology-based economic development issues. He also interned with the U.S. Commercial Service in Pittsburgh. Mr. Ksiazkiewicz attained his Master's degree in Public and International Affairs from the Graduate School of Public and International Affairs at the University of Pittsburgh, where his research included issues related to green technologies and renewable energy development.

Ray Leach

Ray Leach is a serial entrepreneur, experienced angel investor, expert in technology entrepreneurship, and has been CEO of JumpStart Inc. since its founding in July 2004. Mr. Leach started his career as an expert in information technologies at IBM, where he worked with a wide range of Fortune 500 organizations. He then founded and bootstrapped two startup companies, Publishing Solutions, Inc. and the Interactive Media Group, leading the organizations through growth rates that exceeded 200 percent per year for six years, until their successful sale to Multigraphics Inc. in 1997. Upon the acquisition, Mr. Leach became Senior Vice President of Digital Systems and Vice President of Sales at Multigraphics, where he directed a range of technology-oriented product and service businesses. In 2000, he founded Capella Investments, Inc., an investment and management consulting firm focused on startup information technology companies. Immediately prior to leading JumpStart, Mr. Leach taught workshops at the Massachusetts Institute of Technology Sloan School of Management and served as an Entrepreneur-in-Residence for CommonAngels, Boston's largest angel investing organization. Mr. Leach serves on numerous boards and advisory councils, including the Advisory Council of the Office of Innovation and Entrepreneurship of the U.S. Department of Commerce, as well as the Public Policy Subcommittee of the National Association of Seed and Venture Funds (NASVF). He is one of the current leaders of the Northeast Ohio Venture Capital Task Force, which works to support capital formation in Ohio, and is a charter member of the Ohio chapter of The Indus Entrepreneurs (TiE), the world's largest organization fostering international entrepreneurship. Mr. Leach earned an M.B.A. as a Sloan Fellow at the Massachusetts Institute of Technology Sloan School of Management and holds a Bachelor of Arts in Finance from the University of Akron.

Ginger Lew

Ginger Lew is Senior Counselor to the White House National Economic Council and the Small Business Administration. She provides economic policy advice on a broad range of matters that impact small businesses. In addition, she co-chairs the White House Interagency Group on Innovation and Entrepreneurship, and leads the White House Interagency Taskforce on Regional Innovation Clusters.

Prior to joining the Obama Administration, Ms. Lew was the managing partner of a communications venture capital fund, and a venture advisor to an early stage venture fund. Ms. Lew also was Chairman and board member of an investment fund based in Europe. She served on the boards of publicly traded companies, private companies, and nonprofit organizations.

Under the Clinton Administration, Ms. Lew was the Deputy Administrator and Chief Operating Officer of the U.S. Small Business Administration where she provided day to day management and operational oversight of a \$42 billion loan portfolio. Before joining SBA, Ms. Lew was the General Counsel at the U.S. Department of Commerce where she specialized in international trade issues.

Rich Lunak

Rich Lunak is President & CEO of Innovation Works, the nation's third most active early stage investor according to Entrepreneur Magazine. Mr. Lunak leads Innovation Works' efforts to provide business expertise, seed capital and other resources to high-potential, technology startup companies in the Pittsburgh region. Since 2000, Innovation Works has invested in more than 125 regional technology startups which have gone on to raise more than \$800 million in follow-on investment. Additionally, 72 percent of the Pittsburgh region's venture capital investments went to Innovation Works' portfolio companies since 2007. Prior to joining Innovation Works in 2005, Mr. Lunak was a successful technology entrepreneur. He helped lead Automated Healthcare from a three-person startup to a \$65 million acquisition by McKesson Corporation, the nation's 16th largest company. He became Group President, McKesson Automation, where he led five autonomous business units that served more than 13,000 customers, generated several hundred million in revenues and managed more than 1,800 employees with operations in four states. He was responsible for acquiring new technologies and the design, development and rollout of numerous robotic, automated and software products that are installed in leading healthcare providers across the country and around the world. Mr. Lunak holds several U.S. patents. He is a guest lecturer at the University of Pittsburgh and Carnegie Mellon and is a member of numerous boards of directors. For several years, Mr. Lunak served as an officer of the Pittsburgh Venture Capital Association. He also is the winner of the 2008 Carnegie Science Center entrepreneur's award.

Tino Mantella

Tino Mantella joined the Technology Association of Georgia (TAG) in September 2004 as the organization's President. Prior to joining TAG, Mr. Mantella had amassed over 20 years of related experience leading two of the nations more prestigious volunteer-driven organizations - National Arthritis Foundation and YMCA of Metropolitan Chicago. As President and CEO of two multifaceted and complex charities, he spearheaded agendas that led to the development of innovative new services, resulting in the facilitation of significant membership growth. In addition, his track record reflects impressive results in fund raising, advocacy, and economic development. Since coming to TAG, Mr. Mantella has worked with a team of dedicated volunteers and staff to: build a prestigious board made up of 60 technology stakeholders; grow membership by more than 600 percent; and add a series of program and services that support TAG's vision of educating, informing and uniting the technology community. Mr. Mantella has served on Northwestern Universities' Kellogg Board; and has been a long-standing member of Young Presidents Organization (YPO); and, among others, currently serves on the Board of Directors of Venture Atlanta.

The Honorable Chuck Martin

Chuck Martin is currently serving his fourth term of office in the Georgia State House of Representatives since being elected in 2002 after holding local office positions since 1992. In January 2007, Representative Martin was appointed Vice Chairman of the House of Appropriations Committee, Chairman for the Sub-Committee on Public Safety. Additionally, he has served as the Vice Chairman of the Science & Technology Committee and as a member of the Energy, Utilities and Telecommunications, Budget and Fiscal Oversight, and the Ways & Means Committees. He is additionally Chairman of the Energy and Environment Committee for Southern Legislative Conference comprised of 15 Southern states. Representative Martin was named by the Georgia Technology Association as 2010 Legislator of the Year for the second time in four years, 2007 Legislator of the Year by the Georgia Chamber of Commerce, and also was recognized for Legislative Leadership by the Association of County Commission for Georgia. After college, Representative Martin pursued a career in information technology and real estate consulting. He currently is a Director with Ryan, Inc., the leading tax services firm in North America. Representative Martin attended the University of Georgia, where he earned a B.B.A. in Management Science in 1983.

Jeff Mason

Jeff Mason is Executive Director of Michigan's University Research Corridor (URC), which is an alliance between Michigan State University, the University of Michigan, and Wayne State University to transform, strengthen, and diversify Michigan's economy. The vision of the University Research Corridor is to play a key role in creating a vibrant Michigan economy that leverages the intellectual capital of its three public research universities, to work proactively to attract the knowledge economy businesses that can find the research activity that feeds new enterprise, educate the workforce, and plants the seeds for the new industries of tomorrow. Prior to joining the URC as Executive Director in July, 2009, Mr. Mason served as Senior Vice President and Chief Business Development Officer for the Michigan Economic Development Corporation. In that role he led a team responsible for the retention and expansion of existing Michigan businesses as well as the attraction of national and international companies to Michigan. In 2008, that team assisted businesses in creating or retaining over 105,000 jobs and over \$7.6 billion in private investment. Before becoming Chief Business Development Officer, Mr. Mason headed up the Technology Development Group working to grow Michigan's technology oriented segments of the state's economy through the areas of technology transfer and commercialization, venture capital, entrepreneurship, and business development. The group's focus was in the sectors of life sciences, homeland security, and advanced automotive technologies that make up Governor Jennifer Granholm's 21st Century Jobs Fund, a \$1.0 billion, ten-year fund designed to grow and diversify Michigan's economy. Mr. Mason serves on a number of technology organizations boards including the Michigan Manufacturing Technology Center. He received a Bachelor of Arts in Business Administration from Michigan State University.

Brian McGowan

Brian McGowan was appointed Deputy Assistant Secretary of Commerce and COO for the U.S. Economic Development Administration in September 2009. Before joining the Obama Administration, he was appointed by Governor Arnold Schwarzenegger and served as California's Deputy Secretary for Economic Development and Commerce in the Business, Transportation and Housing Agency.

Mr. McGowan has over 15 years of economic development experience at all levels of government. He was appointed as the Economic Development Agency Administrator for the County of San Bernardino, California overseeing four departments focused on economic development, community development and housing, redevelopment and workforce development. He also worked for the cities of Ontario and Palm Springs in California where he created award winning programs to grow the economy. He established offices to promote international trade and investment and created the Palm Springs Foreign Trade Zone. In addition, Mr. MGowan was a consultant on a U.S. Agency for International Development funded program to help cities in Bulgaria and Serbia create economic development and growth strategies.

While serving the state of California, Mr. McGowan created the California Innovation Hub program to promote the commercialization of technology and the California Certified Sites program to accelerate the development process for new projects. He also served on the boards of the Infrastructure and Economic Development Bank, the Employment Training Panel, the California Workforce Investment Board, the International Trade Advisory Committee, the California Association for Local Economic Development and Team California.

Mr. McGowan received a Bachelor's degree in Political Science from the University of California, Riverside and a Master's degree in Politics, Economics and Business from the Claremont Graduate University. He is also the Michael and Mary Johnston Fellow at the Claremont Graduate University where he is completing a Ph.D. in American Politics and Policy.

Catherine Mott

Catherine Mott is a founder and CEO of BlueTree Capital Group and BlueTree Allied Angels, which is one of 300 professionally managed angel investor networks in the U.S. and Canada. As of May 2010, BlueTree Allied Angels has invested \$14.3 million in 24 regional companies. BlueTree Allied Angels was listed in INC. magazine in 2009 as one of the Top 50 angel investor networks in the U.S., and Ms. Mott has been recognized in many professional industry publications as one of few women who represent the industry of angel/venture capital. Previously, she founded Synergetics Sales Performance Group (formerly Strategic Sales Solutions) and Indigo Capital Development, LLC. Prior to forming her own businesses, she worked 17 years in corporate banking management where she served in senior management roles for investment sales/wealth management, commercial lending, business development, and retail expansion. Ms. Mott is the past Chairman of the Angel Capital Education Foundation, an organization that researches angel capital, tracks angel capital, and provides education to bring professionalism and ethics to the industry, and recently became Chairman of the Board of the Angel Capital Association. Additionally, she has been or is a member of numerous boards of directors, including Angel Capital Education Foundation (ACEF/ACA): Grove City College Entrepreneurship Program; Chatham College Women's Entrepreneurship Program, Duquesne University's Entrepreneurship Advisory Council, and Carnegie Mellon University's Olympus Advisory Council, among others. In 2009, she served as a Corporate Ambassador for the U.S. Department of State representing professional managers of Angel networks in the U.S., and in 2002 she was named one of Pennsylvania's 50 Best Women in Business. Ms. Mott holds an M.B.A. in Finance and Bachelor of Science and Master's degrees in Education.

Josh O'Brien

Josh O'Brien is Senior Business Development Manager for Bioscience at the Greater Oklahoma City Chamber. He came to the Chamber in 2003 to work on bioscience initiatives after working in public education at the local and state level for nearly seven years. Mr. O'Brien earned his Bachelor's degree from Oklahoma City University in 1987 and a Master's degree from Northwestern University in Evanston, Illinois, in 1991.

Thomas Peterson

Thomas Peterson is Assistant Director for Engineering at the National Science Foundation (NSF). The ENG Directorate at NSF provides critical support for the nation's engineering research and education activities, and is a driving force behind the education and development of the nation's engineering workforce. With a budget of approximately \$640 million, the directorate supports fundamental and transformative research, the creation of cutting-edge facilities and tools, broad interdisciplinary collaborations, and through its Centers and Small Business Innovation Research programs, enhances the competitiveness of U.S. companies.

Prior to joining NSF, Dr. Peterson was Dean of the College of Engineering at the University of Arizona. He served on the faculty of the University of Arizona since 1977, as head of the Chemical and Environmental Engineering Department from 1990 to 1998, and as Dean from 1998 until January 2009. During his service as Dean, Dr. Peterson was a member of the Executive Board for the Engineering Deans' Council of ASEE and was Vice Chair of EDC from 2007 to 2008. He has served on the Board of Directors of the Council for Chemical Research and on the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). He was one of the founding members of the Global Engineering Deans' Council, and at Arizona made global education experiences a high priority for his engineering students. He is a fellow of the American Institute of Chemical Engineers and a recipient of the Kenneth T. Whitby Award from the American Association for Aerosol Research. Dr. Peterson received his Bachelor of Science from Tufts University, his Master of Science from the University of Arizona and his Doctorate from the California Institute of Technology, all in Chemical Engineering.

Catherine Renault

Catherine Renault serves as the Director, Office of Innovation in the Maine Department of Economic and Community Development and as Science Advisor to the Governor. As such, the Office of Innovation oversees and evaluates all programs that receive state funding for research and development, coordinates efforts between and among the state's educational, nonprofit and for profit research-intensive organizations and develops and implements a science and technology plan for the state consistent with Maine's overall economic development strategy. The Office of Innovation manages the budgets for the Maine Technology Institute and the Technology Centers as well as the annual Comprehensive R&D Evaluation. Dr. Renault comes to Maine from RTI International in Durham, NC, where she consulted with a wide variety of states and regions about technology-based economic development. Her previous state experience was as Managing Director of Virginia's Center for Innovative Technology where she was responsible for entrepreneurship and access to capital policy as well as statewide technology transfer initiatives. She also spent ten years in the private sector including AT&T and Data General. Dr. Renault is originally from Boston and received her undergraduate degree from Harvard, her M.B.A. from the University of Virginia and her Ph.D. from the University of North Carolina at Chapel Hill. Dr. Renault is a member of the SSTI Board of Trustees.

Governor Edward Rendell

Edward G. Rendell, Pennsylvania's 45th governor, began a second term of office on January 16, 2007, following a landslide re-election victory. He serves as chief executive of the nation's 6th-most-populous state and oversees a \$28.3 billion budget. Governor Rendell's unprecedented strategic investments have energized Pennsylvania's economy, revitalized communities, improved education, protected the environment and expanded access to health care to all children and affordable prescription drugs for older adults. He championed and signed into law Pennsylvania's first comprehensive measure to substantially reform the local tax system by providing urgently needed property tax relief to homeowners. In 2008-09 taxpayers will save nearly \$800 million in the first year of statewide property tax relief from gaming revenues.

Under Governor Rendell's leadership, Pennsylvania's economy rebounded sharply. Governor Rendell's economic stimulus plan is investing more than \$2.8 billion to create new jobs and revitalize communities. Pennsylvania's unemployment rate continues to be better than, or on par with, the national average. To ensure that all Pennsylvanians share in the benefits of our growing economy, the governor successfully championed the first minimum wage increase in nearly a decade.

Under Governor Rendell, student achievement is on the rise at every grade level and in every subject. Pennsylvania's public schools now have the resources to invest in proven education initiatives like pre-kindergarten, full-day kindergarten and tutoring. Pennsylvania has gone from one of the nine states in the country that failed to fund pre-kindergarten to a national leader in early childhood investment, and for the first time ever more than half of Pennsylvania kindergartners are in full-day programs.

Governor Rendell also is making Pennsylvania a leader in pursuing energy independence – creating jobs in the emerging alternative energy economy while developing effective strategies to reduce dependence on foreign oil and save families money. In addition, Governor Rendell won passage of the landmark Growing Greener 2 environmental investment package. The \$625 million initiative is cleaning up rivers and streams, improving parks, returning abandoned industrial sites to productive use, protecting open space and preserving farmland.

Governor Rendell has accomplished all of this while being a careful steward of the commonwealth's finances. When he became governor, the commonwealth faced a projected budget deficit of \$2.4 billion. As one of his first acts, Governor Rendell cut government spending to close that deficit and implemented programs and policies to apply business principles of productivity and cost-savings to the operation of state government.

From 1992 through 1999, Mr. Rendell served as the 121st Mayor of Philadelphia. Before serving as Mayor, Mr. Rendell was elected District Attorney of Philadelphia for two terms from 1978 through 1985.

Governor Rendell served as general Chair of the Democratic National Committee during the 2000 presidential election, has been active in the community through a variety of memberships on boards, and also teaches government and politics courses at the University of Pennsylvania. An Army veteran, the Governor received a Bachelor of Arts degree from the University of Pennsylvania and a Juris Doctorate degree from Villanova Law School.

The Honorable Tom Ridge

The Honorable Tom Ridge is the President and CEO of Ridge Global LLC, where he leads a team of international experts that helps businesses and governments address a range of needs throughout their organizations, including risk management and global trade security, strategic business generation, technology integration, event security, crisis management, campus security and other issues that encompass a diverse portfolio.

Following the tragic events of September 11th, 2001, Mr. Ridge became the first Assistant to the President for Homeland Security and, on January 24, 2003, became the first Secretary of the U.S. Department of Homeland Security. The creation of the country's 15th Cabinet department marked the largest reorganization of government since the Truman administration and another call to service for the former soldier, Congressman and Governor of Pennsylvania. During his tenure, Secretary Ridge worked with more than 180,000-plus employees from a combined 22 agencies to create an agency that facilitated the flow of people and goods, instituted layered security at air, land and seaports, developed a unified national response and recovery plan, protected critical infrastructure, integrated new technology and improved information sharing worldwide. Mr. Ridge served as Secretary of this historic and critical endeavor until February 1, 2005.

Mr. Ridge was twice elected Governor of Pennsylvania. He served as the state's 43rd governor from 1995 to 2001. Known for his commitment to high standards and results, Governor Ridge delivered on his promise to make Pennsylvania "a leader among states and a competitor among nations." Governor Ridge's aggressive technology strategy helped fuel the state's advances in economic development, education, health care and the environment.

After law school, Mr. Ridge was in private practice before becoming Assistant District Attorney in Erie County. Mr Ridge was elected to Congress in 1982, and as one of the first Vietnam combat veterans elected to the U.S. House of Representatives he was overwhelmingly re-elected by Pennsylvania voters five times.

Mr. Ridge regularly addresses audiences throughout the world on issues, such as security, terrorism, global engagement, leadership, technology and serves on the boards of the Institute for Defense Analyses, the Center for the Study of the Presidency and Congress and other private and public entities. Since 2005, he has served as Chairman of the National Organization on Disability. Throughout his public and private sector career, Mr. Ridge has received numerous honors, including the Woodrow Wilson Award, the Veterans of Foreign Wars' Dwight D. Eisenhower Award, the John F. Kennedy National Award, the Ellis Island Medal of Honor, the American Bar Association's John Marshall Award, the National Guard's Harry S. Truman Award, among others. From his military service as an infantry staff sergeant in Vietnam, he earned the Bronze Star for Valor, the Combat Infantry Badge and the Vietnamese Cross of Gallantry. He also has been awarded honorary degrees and awards from many national and international academic institutions.

Mr. Ridge earned a scholarship to Harvard, graduating with honors in 1967. After his first year at The Dickinson School of Law, he was drafted into the U.S. Army. After returning to Pennsylvania and to Dickinson, he earned his law degree.

Rick Ritter

Rick Ritter serves as the Chief Executive Officer and President of Idaho TechConnect, Inc., a position he has held since 2005. In addition, Mr. Ritter serves as the Chief Operations Officer for Invest Idaho, an EB-5 Regional Center. Mr. Ritter has more than 20 years of business incubation/assistance/commercialization experience. He has started and successfully operated five businesses (technology, construction, real estate development, consulting, nonprofit). He has experience in federal and state government, university, nonprofit and private sector arenas. Mr. Ritter holds a Master's degree in Public Administration from Boise State University and a Bachelor's degree in Secondary Education from the University of Idaho.

Duane Roth

Duane Roth is Chief Executive Officer and member of the Board of Directors of CONNECT. CONNECT is the globally recognized public benefits organization fostering entrepreneurship in the San Diego region by assisting new business formation of technology and life sciences companies. Since its inception in 1985, CONNECT has been directly involved with over 2,000 companies that have secured over \$10 billion in funding. Prior to joining CONNECT, Mr. Roth founded Alliance Pharmaceutical Corp., where he serves as Chairman of the Board of Directors. Prior to Alliance, he held senior management positions at Johnson & Johnson and Wyeth operating companies. He has served as a member of the Board of Directors and executive committees of the Biotechnology Industry Organization (BIO), the California Healthcare Institute (CHI) and BIOCOM (past Chair). Mr. Roth was appointed to the oversight board of the California Institute of Regenerative Medicine (CIRM) by Governor Arnold Schwarzenegger in 2006 and was elected Vice Chairman in 2009.

Doug Rothwell

Doug Rothwell is the first President & CEO of Business Leaders for Michigan, a Michigan business roundtable comprised of senior executives from Michigan's largest employers and leading universities. In this role, he has led the development of the Michigan Turnaround Plan, a comprehensive strategy for making Michigan a "Top Ten" state for job & economic growth. Previously, Mr. Rothwell served as President of Detroit Renaissance, a regional business roundtable, and as Executive Director of Worldwide Real Estate for General Motors. He also founded and served as President and Chief Executive Officer of the Michigan Economic Development Corporation, served as Chief of Staff to the Governor of Delaware and was an Executive Vice President at MBNA Corporation, the nation's second largest credit card issuer (now part of Bank of America). He is one of a handful of state executives to be honored with the National Governors Association's outstanding public service awards. His community service extends to serving on the Board of the School of Government Foundation of the University of North Carolina at Chapel Hill and chairing the Corporate Relations Council for the University of Michigan's Musical Society. Mr. Rothwell holds a Masters of Public Administration degree from the University of North Carolina at Chapel Hill, a Bachelor of Arts degree from the University of Delaware and attended the John F. Kennedy School's residential program for Senior Executives in State and Local Government at Harvard University.

Stephen Schillo

Steve Schillo joined Duquesne as its new Vice President for Management and Business in July 2002. He serves as the University's chief business and financial officer, providing leadership and direction to all university business and support functions. Mr. Schillo started his professional career as the Budget & Research Officer and Assistant Director of Finance for the City of Pittsburgh. In 1983, he assumed the position of City & School Treasurer and Deputy Director of Finance for the City of Pittsburgh. In 1987, he made the transition from the public sector to higher education finance when he became the Budget Director at Carnegie Mellon where he also has taught Accounting. Later that year, he assumed the position of Director of Business Services and in 1990 attained the position of Associate Vice President for Business Affairs & University Planning at Carnegie Mellon. Later in 1990, Mr. Schillo became the Associate Vice President - Chief Finance Officer for the Main Campus of Georgetown University. He served in this position for three years after which he assumed the position of Vice President for Finance & Administration at Gannon University in Erie, PA, before joining Duquesne. He serves on several local boards and professional organizations and is a financial reviewer for the Pennsylvania Department of Education and for the Middle States Commission on Higher Education. Mr. Schillo completed his undergraduate and graduate education at Carnegie Mellon University where he received a Bachelor of Arts in Psychology and Economics and a Master of Science in Public Management and Policy Analysis from the H. John Heinz III School of Public Policy & Management.

Patricia Scruggs

Pat Scruggs is founder and President of Scruggs & Associates, LLC. Ms. Scruggs brings over twenty-eight years of business and economic development experience to her practice. She has led the development of over 60 economic and workforce development plans, focusing on midsize metropolitan regions and technology-based industries. She has developed in-depth strategies for workforce and industry clusters in information technology, biotechnology, clean technology, creative services, financial services, health care, manufacturing, and others. After multiple tech-based projects across the country, Ms. Scruggs was appointed Oregon's first Director of Innovation and Technology. As state director, she managed the Governor's innovation council and state's technology efforts, including legislation. Since leaving Oregon in 2005, she has continued her innovation services assisting a variety of other states and regions. Most recently, she led a national study on the role of equity capital in rural communities and serves on the Ford Foundation's working group for Wealth Creation in Rural America.

Susan Shows

Susan Shows manages Georgia Research Alliance's investment portfolio, which includes the award-winning Eminent Scholars Program and over \$600 million of strategic research infrastructure at Georgia's six leading research universities. She led the launch and development of the GRA VentureLab program in 2002, and managed its growth until 2008. Prior to joining the Alliance in 2001, Ms. Shows worked at the Georgia Institute of Technology, where she played a leading role in the development and growth of several university-industry initiatives in partnership with the U.S. Defense Logistics Agency, the U.S. Department of Commerce, and key industry organizations in Georgia. She also served as general manager of the Advanced Technology Development Center (ATDC), a technology incubator based at Georgia Tech. Before moving to Georgia in 1987, she worked for Square D Company, and was part of the company's startup team for a major manufacturing facility in North Carolina. Ms. Shows holds a Master's degree in Business Administration from Xavier University and a B.S. in Industrial Management from the University of Tennessee.

Peggy Shults

Peggy Shults is President and CEO of Lytmos Group, Inc., a wholly-owned subsidiary of Solix, Inc. Lytmos provides consulting, process outsourcing services, and software solutions to government and private sector organizations managing competitive grant programs for high-technology research and development. Ms. Shults provides consulting support to program officers and advisory councils in grant program design, development, and evaluation as well as in policy formation and stakeholder communications. She has directed the development of the firm's peer review practice, spearheading the growth of the Lytmos peer review network to more than 1,500 of the nation's top scientists and technical professionals in hundreds of specialty topics. Before founding Lytmos in 2001, she provided general business consulting to small high-technology businesses in the pre- and post-award stages of the federal Small Business Innovation Research (SBIR) grant process, including proposal preparation and project management. In addition, as a partner in a family business in the mailing industry, she helped raise \$4 million in venture capital before that business was acquired by a national firm. Prior to beginning her successful entrepreneurial career, Ms. Shults gained considerable technical and managerial experience as a manufacturing engineer, manager, and director for AT&T Technologies, Microelectronics Division. Ms. Shults holds an M.B.A. from Rockhurst University and a Bachelor of Science degree in Systems Engineering from the University of Arizona.

John Sider

John Sider serves as the Deputy Secretary for the Technology Investment Office within the Pennsylvania Department of Community and Economic Development (DCED). In this role, he oversees the Technology Investment Office, which serves as a catalyst for growth and competitiveness for Pennsylvania's innovation economy. Major initiatives administered by the office include: Keystone Innovation Zones; the Ben Franklin Technology Development Authority, including the Ben Franklin Technology Partners; the Tobacco Settlement Investment Board; Life Science Greenhouses; Venture Capital Investment programs; and the Industrial Resource Centers. He and his team in the Technology Investment Office manage more than \$45 million in annual appropriations and over \$1 billion in assets. Prior to his appointment as Deputy Secretary in July 2009, Mr. Sider served as the Director of Venture Investment for DCED where he managed a venture capital incentives portfolio of more than \$350 million and helped to significantly increase the amount of risk capital available to Pennsylvania entrepreneurs. Specifically, he managed the New PA Venture Investment, New PA Venture Guarantee, and BFTDA Venture programs as well as all outreach to Pennsylvania's Angel investor community. Prior to his experience at DCED, Mr. Sider was lending group leader for Community First Fund, a Lancaster, PA-based community development financial institution where he chaired the loan committee and conducted more than a dozen nationally certified entrepreneurial training classes in communities around central Pennsylvania. He started his career at Fulton Bank where he spent six years in a variety of roles before becoming Market Manager for the City of Harrisburg, supervised two branches, and conducted all small business and mortgage lending in the city. Mr. Sider is a graduate of Wheaton College and earned his M.B.A. from the Fox School of Business at Temple University.

Beth Sirull

Beth Sirull is the Executive Director of Pacific Community Ventures (PCV), an organization that provides focused business advisory services along side three venture investment funds. Prior to becoming Executive Director, Ms. Sirull was the founding Director of Insight -- PCV's research and analysis practice that provides research, knowledge and tools to investors, policymakers and other stakeholders. These tools enable investors to allocate capital to earn competitive financial returns, identify means to maximize social and economic benefits, and help policymakers craft innovative policies to influence the flow of capital and other resources to underserved markets. As Director of InSight, she was responsible for developing and managing consulting relationships, providing return on investment research and analytical services to external institutional investors. Prior to joining PCV, Ms. Sirull spent over fifteen years consulting in market research and strategy, working with such clients as AT&;T, Morgan Stanley/Dean Witter, and Deloitte and Touche. She has held academic appointments in marketing and management at Depaul University and Dominican University. Over the past fifteen years, she also has been involved as a volunteer in a number of nonprofit organizations. Ms. Sirull earned a B.A in Political Science at Brandeis University, an M.B.A. at Boston University and a Master of Public Policy at the University of California, Berkeley.

Mark Skinner

Mark Skinner is Vice President of SSTI and newly appointed director of the Regional Innovation Acceleration Network. His expertise focuses on public-sector, science and technology program conceptualization, development and evaluation. Mr. Skinner began his 23-year career in TBED with the Ohio Department of Development, first as a Technology Center Liaison for Ohio's Thomas Edison Program and later as the manager of Ohio's SBIR Program for six years, responsible for the initial design, implementation and evaluation. He is the principal author of numerous reports, including the National Science Foundation's Survey of State Research and Development Expenditures for 1995 and SSTI's State and Federal Perspectives on the SBIR Program in 1999. Mr. Skinner holds a B.A. in Urban and Regional Planning and Public Administration from Miami University of Ohio.

Leslie Smith

Leslie Lynn Smith is General Manager of TechTown where she continues pursuit of her passion to move forward meaningful economic development and opportunities within the City of Detroit. As a Detroit native, she has a special commitment to its renaissance and looks forward to being even a small part of the solution. Her commitment to mission-focused enterprise at the community level is demonstrated through years of leadership roles within organizations focused on culture development, strategic planning, expansion of arts and physical activity and executive leadership across all sectors of industry, both public and private. She has extensive experience managing multi-faceted organizational teams, implementing best practices, right seating interactive teams, challenging status quo, building multi-dimensional relationships, raising money in complex economic times, managing complex national real estate portfolios, overseeing site selection and development, negotiating and managing programmatic GSE capital transactions (Freddie Mac, Fannie Mae, HUD, MSHDA), traditional and institutional financing vehicles, joint venture partnership arrangements, venture capital raise initiatives

and participative equity transactions totaling in excess of \$2 billion. Prior to joining TechTown, Ms. Smith most recently served as Director of Business Acceleration at Michigan Economic Development Corporation where she had direct oversight of a \$300 million investment portfolio, state and federal grant and loan programs (review, analysis, development, creation, award, negotiation, documentation and ongoing oversight), SmartZone and regional, state and national entrepreneurial strategic service provider relationships including statewide incubation and acceleration service. Prior to that, Ms. Smith was Chief Financial Officer for a privately held real estate firm in Ann Arbor.

Bob Starzvnski

Bob Starzynski serves as Director of the Innovation Adoption Grant Fund for Innovation Works, managing a program that helps established manufacturers with research and development needs, raising outside funding for the program, consulting with manufacturing companies on product development and manufacturing process development initiatives, and managing the award and disbursement of grant money to companies. He has been with Innovation Works since 2001, having served in various capacities prior to assuming his current role. Before joining Innovation Works, he worked with the Pittsburgh Post-Gazette, where he helped launch and manage a weekly technology business section for the newspaper. Prior to that, he spent nearly 10 years in the publishing industry in Washington, D.C., as a reporter, columnist and editor for several newspapers and magazines. The capstone of that work was the creation and oversight of TECHcapital magazine, a technology finance magazine owned by the Washington Post Company, where as Editor-in-Chief he helped build TECHcapital into the largest magazine of its kind on the East Coast. Mr. Starzynski has served on numerous boards and currently serves on the Board of StartingGate, a small business incubator, as well as on the Board of Directors for five different Keystone Innovation Zones in Southwest Pennsylvania. Additionally, he is a 2007 graduate of Leadership Pittsburgh. Mr. Starzynski has a degree in Political Science and Economics from North Carolina State University.

The Honorable Dick Thornburgh

Identified by Washingtonian magazine recently as one of "ten legendary Washington lawyers who will forever leave their mark on the District's legal landscape," the Honorable Dick Thornburgh is currently counsel to the international law firm of K&L Gates LLP, resident in its Washington, D.C. office. He previously served as Governor of Pennsylvania, Attorney General of the United States under Presidents Reagan and George H. W. Bush and Under-Secretary General of the United Nations, during a public career that spanned over 25 years.

Elected Governor in 1978 and re-elected in 1982, Mr. Thornburgh was the first Republican ever to serve two successive terms in that office. He served as Chair of the Republican Governors Association and was named by his fellow governors as one of the nation's most effective big-state governors in a 1986 Newsweek poll.

During his service as Governor, Mr. Thornburgh balanced state budgets for eight consecutive years, reduced both personal and business tax rates, cut the state's record-high indebtedness and left a surplus of \$350 million. Under his leadership, 15,000 unnecessary positions were eliminated from the swollen state bureaucracy that he inherited and widely recognized economic development, education and welfare reform programs were implemented. Pennsylvania's unemployment rate, among the ten highest in the nation when he was elected, was among the ten lowest when he left office as 50,000 new businesses and 500,000 new jobs were created during his tenure.

Among the many path-finding efforts of Mr. Thornburgh's administration was the creation of the Ben Franklin Partnership, widely recognized as a national model for cooperation between research universities and the entrepreneurial community. Created in 1983, it has been responsible for countless new future-oriented Pennsylvania businesses and increases in employment in the advanced technology area. He was the founding Chairman of the State Science and Technology Institute (SSTI). In 2001, he was selected as a lifetime National Associate of the National Academies of Science and Engineering in recognition of his pro bono service to their programs, including the chairing of studies on science and technology and economic development; youth, pornography and the internet; and electronic voting.

After his unanimous confirmation by the United States Senate, Mr. Thornburgh served three years as Attorney General of the United States (1988-1991) in the cabinets of Presidents Reagan and Bush. All told, he served in the Justice Department under five Presidents, beginning as United States Attorney in Pittsburgh (1969-1975) and Assistant Attorney General in charge of the Criminal Division (1975-1977), emphasizing efforts against major drug traffickers, organized crime and corrupt public officials. During his service as Under-Secretary-General at the United Nations (1992-1993), Mr. Thornburgh was in charge of personnel, budget and finance matters.

Mr. Thornburgh was educated at Yale University, where he obtained an engineering degree, and at the University of Pittsburgh School of Law. His autobiography, "Where the Evidence Leads" was published by the University of Pittsburgh Press in September 2003.

John Vidmar

John Vidmar has been involved in startup and small companies for over 20 years. He has been founder, co-founder or partner in four business ventures and has served as a consultant for 50+ businesses. Mr. Vidmar's experience in marketing and strategic issues has been focused on healthcare, financial and technology markets. Currently, as Director of Business Development for the Ben Franklin Technology Partners, he works with small businesses in the Transformation Business Services Network in 32 counties in Central Pennsylvania. Sponsored by the Ben Franklin Partnership, the project provides services and education directly to qualified manufacturing and technology companies.

David Wilhelm

David Wilhelm is an entrepreneur at heart and a firm believer in the idea that every individual should possess the tools to make the most of their God-given potential – and it is that idea that informs his business and political commitments. Among the many startups he has launched or backed, Mr. Wilhelm is the founder of Hopewell Ventures, Adena Ventures, and New Harvest Power, companies designed to bring sustainable job and wealth creation to the central Appalachian region and the rural Midwest. In the world of politics, Mr. Wilhelm is best known for his work as a manager of high-level campaigns, including the 1992 presidential campaign of then-Governor Bill Clinton, and campaigns for Vice President Joseph Biden, the Mayor of Chicago, Richard Daley, and the late Illinois U.S. Senator Paul Simon. Upon his election, President Clinton nominated Mr. Wilhelm to serve as Chair of the Democratic National Committee. More recently, he co-chaired the successful campaign to renew Ohio's innovative "Third Frontier" job creation program and, in 2008, was one of the first superdelegates to support the candidacy of then-Senator Barack Obama for the presidency. He is the recipient of honorary Doctorate degrees from Ohio University and the University of Charleston. He has taught at the University of Chicago and DePaul University and is currently a Visiting Professor at Ohio University's Voinovich School of Leadership and Public Affairs. Mr. Wilhelm is a graduate of Ohio University and Harvard University's Kennedy School of Government.

Renée Winsky

Renée Winsky is the Chief Executive Officer of the Technology Council of Maryland responsible for charting the tactical course of action given the strategic input from the constituent boards, and leading the activities of the TCM staff to achieve those strategic objectives. She also is responsible for the financial management of the Council and each of its constituent organizations. Prior to joining TCM as CEO in September 2009, Ms. Winsky served as President and Executive Director of the Maryland Technology Development Corporation (TEDCO), a public instrumentality established by the Maryland General Assembly to promote economic development through the development, transfer and commercialization of technology, and was responsible for all operational, staff, technical, financial and program functions of the Corporation. Ms. Winsky previously held positions at the Information Technology Association of America, the National League of Cities and its affiliate, and the National Association of Telecommunications Officers and Advisors. She also has worked with the Maryland Municipal League and the City of Greenbelt, Maryland and has served on the City of Bowie Ethics Commission and on the Technology Council of the American Society of Association Executives. She serves as a board member of the Chesapeake Innovation Center, the UMBC Research Park Corporation, Leadership Maryland, and the Maryland Health Care Product Development Corporation. Ms. Winsky is a graduate of the University of Maryland and a graduate of the Leadership Maryland Class of 2005.

