

The Flexible Electronics Opportunity and Industry Challenges



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The National Academies

The National Academy of Sciences

- National Academy of Sciences chartered by Congress in 1863
 - “Whenever called upon by any department of the Government, investigate, examine, experiment, and report upon any subject of science or art.”



The Growing Competitive Challenge

The rest of world has become smarter ,
more focused, and more financially
committed to developing globally
competitive innovations

America's Innovation Imperative

- “The first step in winning the future is encouraging American innovation.”
- “We know what it takes to compete for the jobs and industries of our time.
 - We need to out-innovate, out-educate, and out-build the rest of the world.”



- President Obama, January 25, State of the Union Message

The National Academies' Board on Science, Technology, and Economic Policy (STEP) is an Internationally Recognized Center of Expertise on Innovation Policy

- STEP studies identify means of:
 - Accelerating innovation
 - Advancing competitiveness and
 - Improving our understanding of the nation's economic performance and of other nations' policies and practices

STEP Work on Innovation Policy

- **Conflict and Cooperation in National Competition for High Technology Industry**
 - Called for an activist and effective trade policy
- **Best Practice in Public-Private Partnerships: Guidance on What Works**
 - Chaired by Gordon Moore, Chairman Emeritus, Intel
- **Innovation in Global Industries**
 - Chaired by David Morgenthaller , Morgenthaller Ventures
- **Patents in the Knowledge Based Economy**
 - Chaired by Richard Levin, Yale University & Mark Myers, University of Pennsylvania

STEP's Current Innovation Work

- **Comparative National Innovation Policies: Best Practice for the 21st Century**
 - Chaired by Ambassador Alan Wm. Wolff, Dewey & LeBoeuf, Former Deputy USTR
- **Best Practices in State and Regional Programs**
 - Chaired by Mary Good, University of Arkansas, Former Under Secretary for Technology at the Department of Commerce
- **Review of Electric Drive Battery Research and Development Activities**
 - Chaired by Mary Good
- **Crossing the Valley of Death: An Assessment of the SBIR Program**
 - Chaired by Jacques Gansler, University of Maryland and Former Under Secretary for Defense for Acquisition, Technology and Logistics

STEP's Current Innovation Work

- Best Practices in National Innovation Programs for Flexible Electronics
- It is my pleasure to introduce the co-Chair of this study, Dr. A. Michael Andrews,
 - Vice President & CTO at L-3 Communications
 - Formerly Deputy Assistant Secretary for Research and Technology and Chief Scientist at US Army

Thank You



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