Stephan Biller
Director, Dauch Center
Harold T. Amrine Distinguished Professor School of Industrial Engineering and Daniels School of Business
Excellence in Manufacturing & Operations

The Future of the Dauch Center @ the Daniels School of Business

Stephan Biller
Harold T. Amrine Distinguished Professor & Director of the Dauch Center @ the Daniels School of Business

School of Industrial Engineering & Mitchel E. Daniels, Jr. School of Business
XMO @ Purdue

- **Thought Leadership & Innovation**
  - Integrated holistic physical, digital, and sustainable innovation across campus
  - National & regional events to establish Purdue manufacturing & supply chain leadership
  - National innovation centers & institutes

- **Lifelong Learning @ all levels of education**
  - Joint degrees (e.g, Integrated Business & Engineering)
  - Lifelong experiential learning across all schools and degrees ($K \rightarrow \infty$)
  - Executive Education

- **Engagement**
  - Industrial entry point of SMMs & OEMs Manufacturing & Supply Chain Leaders
  - Demonstrations in Engineering & Polytechnic Labs
  - Proof-of-Concept @ OEMs & SMMs
Dauch Centers Role in XMO

- Thought Leadership & Innovation
  - Energy Transition in Transportation
  - Digital Transformation of SMMs & OEMs
  - Resilient Manufacturing & Supply Chains
  - National & Regional Conferences
On behalf of Purdue’s leadership and National Academy of Engineering (NAE) members, we invite you to the Regional Meeting and Symposium of the National Academy of Engineering for

**EXCELLENCE IN MANUFACTURING AND OPERATIONS (XMO)**

**AT THE CROSSROADS OF AMERICA**

**MADE IN INDIANA**

Purdue Memorial Union, 101 Grant St, West Lafayette, IN 47906 / March 24-26, 2024

Dauch Centers Role in XMO

- **Thought Leadership & Innovation**
  - Energy Transition in Transportation
  - Digital Transformation of SMMs & OEMs
  - Resilient Manufacturing & Supply Chains
  - National & Regional Conferences

- **Lifelong Learning @ all levels of education**
  - Company-driven student projects & Student Competitions
  - International Outreach
  - Executive Education
# Dauch Center Student Projects

<table>
<thead>
<tr>
<th>Ports Study &amp; State Wide Electric Vehicle Disruption</th>
<th>Warehouse Consolidation &amp; Material Supply</th>
<th>Fleet Management</th>
<th>Warehouse Packaging Optimization &amp; Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014 – 2022 Sea-based Imports</td>
<td>Wabash Inventory Planning</td>
<td>INDOT Snow Route Location Optimization</td>
<td>Subaru of Indiana Automotive, Inc. Drone Project</td>
</tr>
<tr>
<td>State of Indiana Electric Vehicle Product Commission</td>
<td>Wabash Location National Site Analysis</td>
<td>INDOT Last Mile Optimization</td>
<td>Rea Magnet Wire Project</td>
</tr>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td>Supply Chain Marketplace</td>
<td>General Electric Appliances Logistics Project</td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image7.png" alt="Image" /></td>
<td>Supply Chain Marketplace</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Dauch Centers Role in XMO

- **Thought Leadership & Innovation**
  - Energy Transition in Transportation
  - Digital Transformation of SMMs & OEMs
  - Resilient Manufacturing & Supply Chains
  - National & Regional Conferences

- **Lifelong Learning @ all levels of education**
  - Company-driven student projects & Student Competitions
  - International Outreach
  - Executive Education

- **Engagement with community**
  - Industrial entry point of SMMs & OEMs Manufacturing & Supply Chain Leaders
  - User Groups for SMMs
  - Federal & state-sponsored projects
  - Consulting services
Thank You