Enrollment

Undergraduate

Graduate
Research – Awards and Expenditures

- **New Awards**
  
<table>
<thead>
<tr>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
</tr>
</thead>
<tbody>
<tr>
<td>$508,353</td>
<td>$1,302,748</td>
<td>$923,251</td>
</tr>
</tbody>
</table>

- **Research Expenditures**
  
<table>
<thead>
<tr>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,478,204</td>
<td>$1,623,952</td>
<td>$1,412,850</td>
</tr>
</tbody>
</table>
12 Grants over the past 12 months


- **Soner Onder**, NSF, *Sphinx: Combining Data and Instruction Level Parallelism through Demand Driven Execution of Imperative Programs*, $560,000. This is a collaborative project with FSU with a total budget of $875,000. Soner is the leading PI of this four-year project.


- **Leo C. Ureel II**, Google, $35,000 CS4HS award, along with **Charles Wallace** and **Linda Ott**. The project establishes a U.P.-wide Community of Practice for K-12 computer teachers

- Aleksandr Sergeyev (SoT), Abdulnasser Alaraje (SoT) and **Scott Kuhl** (CS), NSF, $702,324, *University, Community College and Industry Partnership: Revamping Robotics Education to Meet 21st Century Workforce Needs*.

12 Grants over the past 12 months (Cont.)

- **Xiaohua Xu**, NSF, $145,664. The project is titled *Optimal Joint Spectrum Allocation and Scheduling for Cognitive Radio Networks*.

- **Ching-Kuang Shene**, $53,396, NSF through the University of Notre Dame for the first year of a potential two-year research and development project totaling $67,216, *CGV: Small:* Graph-Based Techniques for Visual Analytics of Big Scientific Data.


- **Philart Jeon**, $788,926, US DOT, National University Rail Center Project. *NURail-Tier I*.


- **Soner Onder**, NSF, *EAGER: Combining Data and Instruction Level Parallelism through Demand Driven Execution of Imperative Programs*, $97,944.
Recent Teaching and Service Recognition

• **Nilufer Onder** was ranked in the top 10% across all university classes with a size of 50 students; She earned a score of 4.85 on the question of Excellent Teacher in fall 2014.

• **Laura Brown** and **Leo Ureel** were selected as two of the eight spring 2015 CTL Creative Canvas Course Contest (C-4) winners. Their Canvas courses were recognized as effective by both students and the Center for Teaching and Learning.

• **Scott Kuhl** received the Dean’s Teaching Showcase recognition in January 2015.

• **Charles Wallace** has been chosen as a Fulbright Alumni Ambassador. Fulbright Alumni Ambassadors are selected competitively for two-year terms.

• **Charles Wallace** received University's Distinguished Service Award, which recognizes faculty whose service to the University community has significantly improved the quality of some aspect of campus or community life.
International Collaborations

• 3+1+1 program
  • International students complete 3 years of study at their home institution prior to attending Tech. Students will then complete their BS degree by taking courses at Tech during year four of the program.
  • Upon earning their BS degree by their home institution, students may continue with the MS degree program at Tech.

• Status
  ✓ Have signed agreements with 3 universities in China
  ✓ 2 pending agreements with one university in India and the other one in China
  ✓ Next step: explore other counties and regions
New M.S. in Cybersecurity Program

• This new degree program will utilize the alliance expertise on cybersecurity in meeting the emerging job market. The program is expected to attract domestic and international students to pursue cross-disciplinary graduate study of theories with the knowledge of science, engineering, and technology that would help advance the workforce.

• Three concentrations are available: Trusted Software Engineering (TSE), Critical Infrastructure Protection (CIP), and Network Security Management (NSM).

• The proposal has been approved by CS Graduate Committee; Expected to start in fall 2016.
Formed the 1st CS External Advisory Board

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Current Position</th>
<th>Company/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>David B. Behen</td>
<td><a href="mailto:behend@michigan.gov">behend@michigan.gov</a></td>
<td>Director and Chief Information Officer</td>
<td>State of Michigan</td>
</tr>
<tr>
<td>William Frantz</td>
<td><a href="mailto:wfrantz@ford.com">wfrantz@ford.com</a></td>
<td>Embedded Software Engineer</td>
<td>Ford Motor Company</td>
</tr>
<tr>
<td>Garret Gaw</td>
<td><a href="mailto:gawg@amazon.com">gawg@amazon.com</a></td>
<td>Technology Leader</td>
<td>Amazon</td>
</tr>
<tr>
<td>Amy Johnson</td>
<td><a href="mailto:amy@matrixcm.com">amy@matrixcm.com</a></td>
<td>Head of Customer Success</td>
<td>Clari Inc</td>
</tr>
<tr>
<td>Dale Luck</td>
<td><a href="mailto:d.luck@ieee.org">d.luck@ieee.org</a></td>
<td>Senior Software Engineer</td>
<td>Roku, Inc</td>
</tr>
<tr>
<td>Dianne Marsh</td>
<td><a href="mailto:dianne@diannemarsh.com">dianne@diannemarsh.com</a></td>
<td>Director of Engineering Tools</td>
<td>Netflix</td>
</tr>
<tr>
<td>Jack Matheson</td>
<td><a href="mailto:jack.k.matheson@intel.com">jack.k.matheson@intel.com</a></td>
<td>Director and Chief Information Officer</td>
<td>Intel</td>
</tr>
<tr>
<td>Patrick Moore</td>
<td><a href="mailto:patmoore@farreach.es">patmoore@farreach.es</a></td>
<td>VP of Engineering</td>
<td>WhalePath</td>
</tr>
<tr>
<td>Jason Poquette</td>
<td><a href="mailto:JPoquette@jjkeller.com">JPoquette@jjkeller.com</a></td>
<td>Web and Mobile Development Manager</td>
<td>J.J. Keller and Associates</td>
</tr>
<tr>
<td>Donn P. Schneider</td>
<td><a href="mailto:donnliza@new.rr.com">donnliza@new.rr.com</a></td>
<td>Systems Technologist</td>
<td>Wisconsin Public Service Corp.</td>
</tr>
<tr>
<td>Robert Sweet</td>
<td><a href="mailto:robert.sweet@jackson.com">robert.sweet@jackson.com</a></td>
<td>Director of Systems and Programming</td>
<td>Jackson National Life Insurance</td>
</tr>
<tr>
<td>Brian VanVoorst</td>
<td><a href="mailto:bvanvoor@bbn.com">bvanvoor@bbn.com</a></td>
<td>Technical Director</td>
<td>BBN Technologies (Raytheon)</td>
</tr>
</tbody>
</table>

- Review the undergraduate programs, particularly the Computer Science program and Software Engineering program
- Advise how to improve the quality of the programs
- Provide information about current industry needs and the state-of-the-art in the field of computer science
- Make suggestions on the department’s development
- Two meetings each year, one in spring and one in fall; each is going to be a full-day meeting
Established ICC together with ECE & SoT

- The **mission** is to promote research and learning experiences in the areas of mobile computing, cybersecurity, cyber physical systems, cyber human systems, and computer systems for the benefit of Michigan Tech and the computing society.

- **Objectives** are to:
  - bring faculty and students across the campus together to discover innovative new knowledge in the field of computing,
  - foster interdisciplinary collaborations and enable faculty to develop multidisciplinary proposals and conduct impactful research which otherwise would not be possible, and
  - improve ACIA external visibility and create a platform for broad sets of national and international collaborations to make valuable contributions to the field.