ELECOMP CAPSTONE 2018-2019
URI Class of 2019 – Group I

SPONSORING COMPANIES

Acumentrics
AVTECH
eMoney Advisor
FAR Sounder
FM Approvals
HEXAGON METROLOGY
Hasbro
Bosch
General Dynamics Electric Boat
Cambridge Technology
SPONSORING COMPANIES
<table>
<thead>
<tr>
<th>Page Range</th>
<th>Company Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Table of Contents</td>
</tr>
<tr>
<td>2</td>
<td>Welcome: Professor Harish Sunak</td>
</tr>
<tr>
<td>3</td>
<td>SUMMIT Schedule of Events</td>
</tr>
<tr>
<td>4</td>
<td>Schedule of “Rocket” Presentations</td>
</tr>
<tr>
<td>5-6</td>
<td>Technical Directors</td>
</tr>
<tr>
<td>7-10</td>
<td>Acumentrics, Inc</td>
</tr>
<tr>
<td>11-14</td>
<td>AVTECH Software, Inc.</td>
</tr>
<tr>
<td>15-18</td>
<td>Bosch Thermotechnology Corporation</td>
</tr>
<tr>
<td>19-22</td>
<td>Cambridge Technology</td>
</tr>
<tr>
<td>23-26</td>
<td>eMoney Advisor LLC</td>
</tr>
<tr>
<td>27-30</td>
<td>FarSounder, Inc.</td>
</tr>
<tr>
<td>31-34</td>
<td>FM Approvals</td>
</tr>
<tr>
<td>35-38</td>
<td>General Dynamics Electric Boat</td>
</tr>
<tr>
<td>39-42</td>
<td>Hasbro</td>
</tr>
<tr>
<td>43-46</td>
<td>Hexagon Manufacturing Intelligence</td>
</tr>
<tr>
<td>47-50</td>
<td>IGT Global Solutions Corporation</td>
</tr>
<tr>
<td>51-54</td>
<td>Infineon Technologies Americas Corp.</td>
</tr>
<tr>
<td>55-58</td>
<td>Iradion AutoLase II</td>
</tr>
<tr>
<td>59-62</td>
<td>Iradion LASIMO</td>
</tr>
<tr>
<td>63-66</td>
<td>ON Semiconductor Bench Auto</td>
</tr>
<tr>
<td>67-70</td>
<td>ON Semiconductor SMPS</td>
</tr>
<tr>
<td>71-74</td>
<td>Phoenix Electric Corporation</td>
</tr>
<tr>
<td>75-78</td>
<td>Pison Technology Inc.</td>
</tr>
<tr>
<td>79-82</td>
<td>Raytheon</td>
</tr>
<tr>
<td>83-86</td>
<td>SES America</td>
</tr>
<tr>
<td>87-90</td>
<td>Supfina Machine Company, Inc.</td>
</tr>
<tr>
<td>91-94</td>
<td>TACO Comfort Solutions</td>
</tr>
<tr>
<td>95-96</td>
<td>ELECOMP Capstone in New Building</td>
</tr>
<tr>
<td>97</td>
<td>ELECOMP Capstone Bridge</td>
</tr>
</tbody>
</table>
7:00 – 8:40 am
• Breakfast
• Registration
• Viewing of Capstone Project Posters
  Location: Higgins Welcome Center, Hope Room

8:50 – 9:00 am Welcome
Professor Harish Sunak, Capstone Program Director
Location: Swan Hall Auditorium

9:00 – 10:27 am Rocket Presentations I (11 teams)
Location: Swan Hall Auditorium

10:27 – 10:45 am Break

10:45 – 12:12 pm Rocket Presentations II (11 Teams)
Location: Swan Hall Auditorium

12:15 – 1:15 pm Lunch
Location: Higgins Welcome Center, Hope Room

1:15 – 2:00 pm Poster Session & Demonstrations
Location: Higgins Welcome Center, Hope & Anchor Rooms

2:00 pm Announcement of Top 5 Teams
Location: Higgins Welcome Center, Hope Room

2:00 – 2:45 pm Reception & Videos
Location: Higgins Welcome Center, Anchor Room
ROCKET PRESENTATIONS
ELECOMP Capstone Design Program
Schedule of “Rocket” Presentations
Swan Hall Auditorium

Rocket Presentations I

9:00 – 9:07 am  Acumentrics, Inc.
9:08 – 9:15 am  AVTECH Software, Inc.
9:16 – 9:23 am  Bosch Thermotechnology Corporation
9:24 – 9:31 am  Cambridge Technology
9:32 – 9:39 am  eMoney Advisor LLC
9:40 – 9:47 am  FarSounder, Inc.
9:48 – 9:55 am  FM Approvals
9:56 – 10:03 am General Dynamics Electric Boat
10:04 – 10:11 am Hasbro
10:12 – 10:19 am Hexagon Manufacturing Intelligence
10:20 – 10:27 am IGT Global Solutions Corporation
10:27 – 10:45 am BREAK

Rocket Presentations II

10:45 – 10:52 am  Infineon Technologies Americas Corp.
10:53 – 11:00 am  Iradion AutoLase II
11:01 – 11:08 am  Iradion LASIMO
11:09 – 11:16 am  ON Semiconductor Bench Auto
11:17 – 11:24 am  ON Semiconductor SMPS
11:25 – 11:32 am  Phoenix Electric Corporation
11:33 – 11:40 am  Pison Technology Inc.
11:41 – 11:48 am  Raytheon
11:49 – 11:56 am  SES America
11:57 am – 12:04 pm Supfina Machine Company, Inc.
12:05 – 12:12 pm TACO Comfort Solutions
DIRECTIONS TO THE ROBERT J. HIGGINS WELCOME CENTER

- Join Route 138 (East or West) towards URI.
- Turn right or left onto Upper College Road, the main entrance to URI. Drive ~0.2 miles; at 1st Intersection, turn right into Briar Lane; see this sign for the Welcome Center.
- Drive past the post office and the police station and turn left into the parking lot for the Higgins Welcome Center; you will see this stone sign: University of Rhode Island (It is before the sign for Kingston Pizza).
- Park in any space marked for “Visitor.”
- From the Parking lot, you will see the back of the Welcome Center.
- SWAN Auditorium is across from the Higgins Welcome Center.

NO PARKING PERMITS REQUIRED
You must register your vehicle online at: uri.aimsParking.com
GRADUATES FROM OUR ECBE DEPARTMENT

Brenden Smerbeck (ELECOMP Capstone 2017) Acumentrics Inc. 2nd year TD
Mike Caneja (ELECOMP Capstone 2015) Bosch Thermotech. 2nd year TD
Alex DePetrillo (ELECOMP Capstone 2018) Consulting TD
Tyler Creighton (ELECOMP Capstone 2018) Consulting TD
Domenic Ferri (ELECOMP Capstone 2018) Consulting TD
David Cippoletta (ELECOMP Capstone 2014) Pison Technology
David Dionisopoulos (ELECOMP Capstone 2011) Supfina Machine
Kevin Toth (ELECOMP Capstone 2010) ON Semiconductor
Jeremy Peacock (ELECOMP Capstone; Double Major Expected 2020) Consulting TD

Sandro Silva (2002) PEC 3rd year TD
Mike Smith (2001) 3rd year Consulting TD
Robert Davis (1997) ON Semiconductor 2nd year TD
Mark Rodrigues (2010) Infineon 2nd year TD
Sam Karnes (2017) Pison Technology
Matthew Coolidge (2001) FarSounder
Amir Habboosh (1998) Raytheon
GRADUATES OF OTHER URI DEPARTMENTS

Jonathan O’Hare (1994) Hexagon 3rd year TD
Jefferson Wright (2014) GD Electric Boat
Mike Kowalczyk (2009) Pison Technology

GRADUATES OF OTHER UNIVERSITIES

Peter Upczak Acumentrics 3rd year TD
Michael Mielke Iradion Laser 2nd year TD
David Connolly SES America 2nd year TD
Darryl Galipeau Infineon Tech. 2nd year TD
Phil Manning Taco Comfort 2nd year TD
Daniel Jaquez eMoney Advisor 2nd year TD
Tom Vrankar Raytheon 2nd year TD
Jerry Huson Bosch Thermotech 2nd year TD
Richard Grundy AVTECH Software
Sarathy Palaykar Bosch Thermotech
Roger Boydstun Bosch Thermotech
Seetharam Sivam Cambridge Technology
Mark Lucas Cambridge Technology
Gary Jutras eMoney Advisor
David Waite FM Approvals
Aaron Cunha FM Approvals
Yan Sun GD Electric Boat
James Brown Hasbro
Robert Corvese IGT Global Solutions
Philippe Quarmeau ON Semiconductor
Alain Laprade ON Semiconductor
Aakash Arora ON Semiconductor
Sidhant Srikumar Pison Technology
Nicholas Costello Taco Comfort
Bob Kellicker Taco Comfort
Adam Card Consulting TD

THANK YOU TECHNICAL DIRECTORS
FOR YOUR SUPPORT AND MENTORING ENGINEERS OF THE FUTURE
YOU ARE AN IMPORTANT COMPONENT OF
THE ELECOMP CAPSTONE BRIDGE: SEE THE BACK COVER
The unknown resistance $R_x$ is to be measured; resistances $R_1$, $R_2$ and $R_3$ are known and $R_2$ is adjustable. Only when the bridge is adjusted to be in PERFECT BALANCE, the measured voltage $V_G$ is zero, and the unknown $R_x$ is determined.

Now we can see the parallel with the 3 important aspects of the Capstone Bridge:

R1: ELECOMP Capstone Design Program

R2: ELE & COMP Seniors with diverse talents

R3: Sponsor’s Technical Director & Problem to be solved

When these aspects are in perfect balance and collaborate in excellent harmony, SUCCESS is achieved in the UNKNOWN ($R_x$): The Best Outcome of the Sponsor’s Problem