THE UNIVERSITY OF RHODE ISLAND
INTERNATIONAL ENGINEERING PROGRAM

Facts & Figures
2011-2012
Dear Members of the Board,

As I am writing these notes to you, my mind is on our 2012 board meeting in Paris. It will be the culmination of a ten day trip designed to celebrate the 25th anniversary of the IEP and to reinforce the strong relationships we have forged with some of our European partner universities and corporate partners. Our URI leadership (President Dooley, Deans Wright (Engineering), Brownell (Arts & Sciences) and Jordan (Pharmacy), accompanied by eight faculty, will join IEP staff members and students for the second German alumni meeting at TU Braunschweig on May 5th, with over one hundred registered participants. One of the many highlights of the Braunschweig visit will be a panel on which TUBS/URI alumni Tobias Lührig, Peter Wiedenhoff, Peter Alberg, and Jesse Schneider will give presentations about the impact the IEP has had on their career path and personal life.

The other goal of the visit to TUBS is to continue the strong research collaboration the two institutions have had in the past and carry it on through a new generation of young and dynamic faculty on both sides. For this purpose, they will meet and exchange their research foci during a half-day forum on Biopharmaceutical Engineering, and will hopefully see new matches and forge new ties to move forward with interdisciplinary international collaborations. President Dooley and President Hesselbach will meet for the first time and sign an adapted dual master’s agreement.

On the company side, Deutsche Bahn will host us in Berlin for a signing ceremony of a new sponsored partnership between DB and the IEP. A big “Thank you” goes to Rolf-Dieter Schnelle, who has gone above and beyond to organize a tour of the historical and cultural sites of Berlin for us. Our trip ends in Paris where you will join us for a visit to the Total company, one of our faithful French partner companies, and then the board meeting at the Université de Technologie de Compiègne, our French partner university. It is vital that URI and IEP leadership meet face-to-face with their new President, Dr. Alain Storck, and the new director of International Relations, to strengthen our synergies, as we hope to grow the French IEP.

As directed by the IEP strategic plan, we invested a lot of effort this year into marketing the IEP through a plethora of publications, conferences, and high school fairs and presentations. As a result, the IEP garnered three awards in the 2011-2012 academic year – presented by the Association of International Educators (NAFSA) for an innovative model of campus internationalization, by the world’s leading Institute for International Education (IIE) for best practice in “Study Abroad”, and by the National Academy of Engineering (NAE) for “Infusing Real World Engineering in Undergraduate Education.” The awards and recognitions reinforced IEP’s leadership position in the field of educating the global engineer and led to world-wide publicity, e.g. through University World News, a publication read by 34,000 readers in 150 countries. An article on the IEP with a simultaneously coordinated web chat will come out in the Chronicle of Higher Education the end of May.
At the same time, the language community honored John Grandin’s pioneering work and advocacy in the field, through three (!) more awards in 2012 from the Association of Departments of Foreign Languages (ADFL), the German Academic Exchange Service (DAAD), and the Rhode Island Foreign Language Association (RIFLA). Seen through the lens of language educators, the IEP provides a model to fill the language classroom pipeline at times when French and German majors are discontinued elsewhere in the country.

The IEP has now grown to 300 students and has seen the largest contingent in the history of the program dispatched to Spain (nine) and China (eight)! It is exciting to see a huge demand on the student side to live in the Heidi Kirk Duffy Living & Learning Community; both houses will be filled to the brim with even more demand in the future. We have managed to maintain a high level of intensity and academic excellence with limited resources; if we could use the IEP coordinator’s time for even more high school outreach, as well as online marketing efforts, instead of needing her to shoulder the large fiscal responsibilities in the program, we could attract many more of the best and brightest students to URI. If we could make sure that the staffing needs are met for delivering an interdisciplinary, special focus curriculum (Chinese, French, German and Spanish for engineers / for business), a curriculum for which the IEP is famous across the country, we could raise the bar even higher. I hope that you will all help me in charting this course in the near future!

Thank you as always for your continued support, and I hope you will enjoy the attractive program we have put together for you in Paris on occasion of the IEP’s 25th anniversary!

Sigrid Berka

Kingston, Rhode Island
April 17, 2012
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<th>Page</th>
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</table>
International Engineering Program
Advisory Board Members 2012

Dr. Heidi Kirk Duffy
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Student Assistants:
James Brooks (GIEP ’16)
Colleen Grinham (GIEP ’12)
Sarah Wood (CIEP ‘14)
## Enrollment Figures 2011-12

<table>
<thead>
<tr>
<th></th>
<th>IEP #</th>
<th>% of IEP</th>
<th>URI College of Engineering Undergraduates</th>
<th>% of COE</th>
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<td>171</td>
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<td><strong>Breakdown by Major</strong></td>
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<td>261</td>
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<tr>
<td>Ocean</td>
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<td>7%</td>
<td>121</td>
<td>11%</td>
</tr>
<tr>
<td>Undeclared B.S. in Engineering</td>
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<td>4%</td>
<td>72</td>
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<tr>
<td>Wanting Engineering</td>
<td>23</td>
<td>8%</td>
<td>-</td>
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</tr>
<tr>
<td>Other**</td>
<td>16</td>
<td>5%</td>
<td>-</td>
<td>-</td>
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</table>

* COE numbers are from fall 2011 and do not include Wanting Engineering designation or other majors.
**Due to double majors and rounding, percentages may not equal 100.
***Includes International Business students(6), double majors, and other majors who were or will be placed in internships abroad by IEP directors.

There has been a 7.9% increase in IEP undergraduate enrollment in the 2011-2012 academic year.

25% of the College of Engineering are IEP students. (265 out of 1076)

### Graduate Students

<table>
<thead>
<tr>
<th>Degree Program</th>
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# 2011-12 Enrollment Figures
## By Language Track

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<th>German IEP</th>
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<tr>
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<td>GIEP</td>
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<td>Total # of Students*</td>
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<tr>
<td>Female</td>
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<td>Male</td>
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<tr>
<td>Out-of-State</td>
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<tr>
<td>Centennial Scholars</td>
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<td>27%</td>
</tr>
<tr>
<td>Minority Representation</td>
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<td>8%</td>
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### By Engineering Discipline...

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<th>Discipline</th>
<th>GIEP</th>
<th>% of GIEP</th>
<th>FIEP</th>
<th>% of FIEP</th>
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<td>13</td>
<td>35%</td>
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<tr>
<td>Civil</td>
<td>7</td>
<td>5%</td>
<td>0</td>
<td>-</td>
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<tr>
<td>Computer</td>
<td>8</td>
<td>6%</td>
<td>1</td>
<td>3%</td>
</tr>
<tr>
<td>Electrical</td>
<td>15</td>
<td>11%</td>
<td>1</td>
<td>3%</td>
</tr>
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<td>Industrial &amp; Systems</td>
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<td>3%</td>
<td>2</td>
<td>5%</td>
</tr>
<tr>
<td>Mechanical</td>
<td>48</td>
<td>36%</td>
<td>7</td>
<td>19%</td>
</tr>
<tr>
<td>Ocean</td>
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<td>3</td>
<td>8%</td>
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<td>4</td>
<td>11%</td>
</tr>
<tr>
<td>Other**</td>
<td>7</td>
<td>5%</td>
<td>0</td>
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</table>

*One double language major is included in both German and Spanish IEP.

**Includes International Business students, double majors, and other majors who were placed in internships abroad by IEP directors.
## 2011-12 Enrollment Figures
### By Language Track

<table>
<thead>
<tr>
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<td>% of SIEP</td>
<td>CIEP</td>
<td>% of CIEP</td>
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<tr>
<td>Total # of Students*</td>
<td>101</td>
<td></td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>32</td>
<td>32%</td>
<td>7</td>
<td>25%</td>
</tr>
<tr>
<td>Male</td>
<td>69</td>
<td>68%</td>
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<td>75%</td>
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<tr>
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<tr>
<td>Minority Representation</td>
<td>30</td>
<td>30%</td>
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<td>7%</td>
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### By Engineering Discipline...

<table>
<thead>
<tr>
<th></th>
<th>Spanish IEP</th>
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<tbody>
<tr>
<td></td>
<td>SIEP</td>
<td>% of SIEP</td>
<td>CIEP</td>
<td>% of CIEP</td>
</tr>
<tr>
<td>Biomedical</td>
<td>17</td>
<td>17%</td>
<td>1</td>
<td>4%</td>
</tr>
<tr>
<td>Chemical</td>
<td>14</td>
<td>14%</td>
<td>5</td>
<td>18%</td>
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<td>Civil</td>
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<td>13%</td>
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<td>Computer</td>
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<td>Electrical</td>
<td>9</td>
<td>9%</td>
<td>5</td>
<td>18%</td>
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<tr>
<td>Industrial &amp; Systems</td>
<td>4</td>
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<td>Mechanical</td>
<td>18</td>
<td>18%</td>
<td>5</td>
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<tr>
<td>Other**</td>
<td>5</td>
<td>5%</td>
<td>4</td>
<td>4%</td>
</tr>
</tbody>
</table>

*One double language major is included in both German and Spanish IEP.

**Includes International Business students, double majors, and other majors who were placed in internships abroad by IEP directors
Enrollment Figures
A Closer Look

% of College of Engineering that is IEP

IEP 25%
Non-IEP 75%

IEP Enrollment by Language

German 45%
Chinese 9%
Spanish 34%
French 12%

IEP by major

Chemical 17%
Biomedical 11%
Civil 7%
Computer 5%
Electrical 10%
Industrial & Systems 3%
Mechanical 26%
Ocean 7%
Other majors 5%
Wanting Engineering 8%
Undeclared Engineering 4%

*Due to double majors, the IEP by Major percentages do not equal 100.
As a result of the occasional double major in language, the sum of the language tallies may exceed the overall number for a given school year.
For the 2012 calendar year, 34 international internship placements were made by the IEP Directors. The following list shows where students completed these internships.

**China**
1. Chris Andraka  
   Bayer Technology Services  
   Shanghai
2. Ruben Auer  
   Sensata Technologies  
   Changzhou
3. Elena Dempsey*  
   Hasbro  
   Hong Kong & Shenzhen
4. Jimmy Li  
   ZF  
   Shanghai
5. Christian Marks  
   Hexagon Metrology  
   Qingdao
6. Alissa McKechnie  
   Hasbro  
   Hong Kong & Shenzhen
7. Patrick Slavin*  
   HengTian  
   Hangzhou

**France**
1. Nicole Bonvouloir  
   Total  
   Paris
2. Daniel Miller  
   Air Liquide  
   Jouy-en-Josas-Cedex

**Germany**
1. Daniel Belbey*  
   BMW  
   Munich
2. Nicholas Beretta  
   IAV  
   Gifhorn
3. Kelly Cook**  
   Siemens  
   Munich
4. Brendan Grealish  
   Deutsche Bahn (DB)  
   Mainz
5. Julila Roder-Hanna  
   Bayer  
   Leverkusen
6. Matt Hooks  
   IAV  
   Gifhorn
7. Stephen Iwuc  
   Bosch  
   Stuttgart
8. Neil McCaffrey  
   Siemens  
   Munich
9. Jason Miller**  
   Continental  
   Regensburg
10. Andrew Moakes  
    ZF  
    Friedrichshafen
11. Paul Pabon  
    Siemens  
    Erlangen
12. Alex Pryor  
    Züblin  
    Stuttgart
13. Andrew Ruggeri  
    Leica Camera  
    Solms
14. Jonathan Schultz  
    VW  
    Wolfsburg
15. Steven Suvajian  
    ZF  
    Friedrichshafen
16. Sean Taylor  
    Leitz Messtechnik  
    Wetzlar

**Spain**
1. Josh Borcuk  
   (CEIT) at the University of Navarra  
   San Sebastián
2. Kelly Cesare  
   Tecnalia  
   San Sebastian
3. Bryce Connors  
   Tecnalia  
   San Sebastian
4. Ashley Gracia  
   Tecnalia  
   San Sebastian
5. Luis González  
   Idom  
   Zaragoza
6. Matthew Perkins  
   Instituto de Hidráulica Ambiental  
   Cantabria
7. Beatrice Pratt  
   3P Biopharmaceuticals  
   Noain
8. Lauren Schambach  
   Tecnalia  
   Derio
9. Andrew Walker  
   3P Biopharmaceuticals  
   Noain

* International Business students placed by IEP directors
** Graduate Students
International Internship Placements 1990-2012

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Legend:
- Chinese
- French
- German
- Spanish
Internship Partners 1990-2012
International and Domestic

3P Biopharmaceuticals (Noain)
Aerodata (Braunschweig)
Agfa (Leverkusen, Gera)
Air Liquide (Jouy-en Josas-Cedex)
Air Nostrum (Valencia)
Apia XXI (Santander)
Applied Materials (Alzenau)
Astilleros de Santander A.S (Astander)
Aviso (Gera)
Axiva (Frankfurt)
B&J Adaptaciones (Barcelona)
BASF (Ludwigshafen)
Bayer (Leverkusen)

Bayer Technology Services (Shanghai)
Beiersdorf AG (Hamburg)
Benteler (Paderborn)
Blaupunkt GmbH (Hildesheim, Germany)
BMW (Munich, New Jersey, South Carolina)
Böhringer Ingelheim Microparts (Dortmund)
Bosch (Stuttgart)
Brown & Sharpe (Rhode Island)
Bruker Biospin (Wiessemebourg)
CEIT (San Sebastián)
Communication Technologies Research Group (Zaragoza)
Continental AG (Regensburg)
DaimlerChrysler (Stuttgart, NJ, MI)
Deutsche Bahn (Munich, Berlin, Minden)
Draeger Medical (Lübeck)
Emitec (Lothmar)
Ewag GmbH (Solothurn)
Fatronik (San Sebastián)
Gamasa S.A (Bilbao)
General Motors (Zaragoza)
Geocéan
GKN Driveline (Zumaia)
Grupo de Ingeniería Oceanográfica y de Costas Universidad de Cantabria (Santander)
GTM Batiment

Hasbro (Hong Kong & Shenzhen)
Hexagon (Quingdao, Wetzlar)
HengTian (Hangzhou)
Hilti (Germany, Liechtenstein, Spain)
Hochtief (Essen, Hamburg)
Hutchinson (Auxy)
IAP (Gifhorn)
IAVF Antriebstechnik AG (Karlsruhe)
Ibaia Energia (Beasain, Ibarra)
IDOM (Bilbao, Zaragoza)

Infineon AG (Munich)
Infremer (LaRochelle)
Instituto de Hidráulica Ambiental (Cantabria)
Johnson & Johnson (NJ, São Paulo)
King Marine (Valencia)
Kolbenschmidt Pierburg (Neckarsulm, Abadiano)
Kraft Foods (Munich)
KS Fototechnik (Wuppertal)
Leica Camera (Solms)
Lemförder (Spain, Germany, South Carolina)
Lufthansa Technik AG (Hamburg)
MTU (Hanover, Munich)
Osram Opto Semiconductors (Regensburg)
Pentair Electronic Packaging (Quingdao)
PolyIC (Fürth)
Praxair (Spain)
Preusse Baubetriebe GmbH (Hamburg)
Price Waterhouse (Frankfurt)
Renault (Guyancourt)
Rhodia (Clamecy, Lyon)
Robert Bosch GmbH (Stuttgart)
Robotiker (Zamudio)
Rhodia (Paris)
Saint-Gobain (Cavaillon, Avignon, Germany, MA)
Salzgitter AG (Salzgitter)
SAP (Karlsruhe, Montreal)
Schroff GmbH (Straubenhardt)
Sensata Technologies (Aguascalientes, Changzhou)
Siemens (Munich, Erlangen, Madrid)
State Key Laboratory for Chemical Engineering (Hangzhou)
Supfina (Rhode Island, Schapbach)
STMicroelectronics (Grenoble)
Tecnalia (Derio, San Sebastian)
Texas Instruments (Aguascalientes)
Thermochemical Processes Research Group (Zaragoza)
Toray Plastics (Lyon)
Total (Paris, Pau)
TRW
VAM/Becker Bau (Kiel)
VDO Automotive AG (Villingen)
Volkswagen (Wolfsburg)
Vorwerk & Co. (Wuppertal)
ZF (Germany, Spain, France, USA, Mexico, China)
Züblin AG (Stuttgart)

Note: Companies marked in bold are new this year.
## Exchanges
### German IEP

### Technische Universität Braunschweig

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**Total # of Students Exchanged = 531**

* Includes 6 dual-degree masters students and 1 doctoral candidate
(Does not include short-term visitors.)
Exchanges
French IEP

Université de Technologie
de Compiègne

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# of Students Exchanged
## Exchanges

### Spanish IEP

#### Universidad de Cantabria
(Spain)

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(Spain)

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#### Tec de Monterrey
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# Exchanges
## Chinese IEP

**Zhejiang University**  
(Hangzhou, China)

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*Includes other majors*
The Chinese Flagship Program completed the CALLM Project (Content Area Language Learning Modules Project), a sub-grant award in cooperation with three other Chinese Flagship Programs – the University of Oregon, San Francisco State University, and Western Kentucky University. In spring 2011 mechanical engineering Professor Zongqin Zhang taught CHN/EGR 413 Advanced Technical Chinese for the first time to Flagship and IEP students. The course was co-developed by Professor Zhang and the Chinese Flagship faculty Wayne He and Wen Xiong. It was video-recorded and sent to the University of Oregon for technical editing to prepare for online offering. During the summer and Fall of 2011, the course topic was changed to Green Energy and redesigned to meet the needs of the wider Flagship audience. The full course, including video chapter introductions by Professor Zhang, course assignments, and supplemental materials is now available on Sakai for use by future Chinese IEP/Flagship cohorts.

**Awards**

Two IEP Flagship Scholars were awarded the **Wroe Family Scholarship** this year:

- Samuel Leblanc, Electrical Engineering & Chinese
- Sarah Wood, Ocean Engineering & Chinese

Both Samuel and Sarah are completing their junior year in the program and preparing to spend the entire summer in China including intensive Chinese language study and research internships at the Ocean University of China in Qingdao.

Three Flagship Scholars were awarded **Beatrice S. Demers Fellowships** for their studies in China during the summer of 2012:

- Andrew Champagne, Biology & Chinese
- Melissa Holdgate, Global Business & Chinese
- Ashley Labrie, Global Business & Chinese

**IEP Chinese Flagship Scholars**

In addition to intensive language study during the academic year, all Flagship students participate in language immersion during between-semester breaks.

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<th>IEP Chinese Flagship Scholars by Class Total</th>
<th>Flagship Students</th>
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<td>Class of 2015: Mechanical Engineering</td>
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<tr>
<td>Classes of 2016: Chemical and Ocean Engineering</td>
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Graduates
December 2011 - August 2012

German (19)
Kyle Chase
Brandon Corey
Daniel Danckert
Nicholas Daniello
Anthony DiGiulio
Michael Dillman
Thomas Duarte
Payam Fahr
Shawn Fineout
William Garcia
Rhys Goff
Colleen Grinham
Brian Kintz
Admir Monteiro
Nicholas Putnam
William Seites-Rundlett
Gregory Turner
Mason Wilson IV
Yida Yang

French (2)
Caitlin Hurley
Raena Morley

Spanish (6)
Mici Chase
Evan Dowell
Courtney Dulude
Max Kramers
Caitlyn Maleck
Chelsae Meier

Chinese
n/a

IEP Graduates through 2011: 370

- German: 285
- French: 34
- Spanish: 47
- Chinese: 4
International Students at the HKD Center in 2011-2012 AY

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<th>Language</th>
<th>Percentage</th>
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<tr>
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Cost Comparison of Living at the Heidi Kirk Duffy Center 2011-2012

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<th>Rainbow Diversity House</th>
<th>Engineering LLC</th>
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<td>$5,491</td>
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Note: The Engineering Living/Learning Community is a part of Housing and Residential Life at the University. The cost to live there includes a meal plan with unlimited visits to the dining hall.
Cumulative Honor Roll
(as of April 15, 2012)

Over $500,000
Heidi Kirk Duffy

$150,000 - $500,000
ZF Friedrichshafen AG
Annette Kade Foundation
Max Kade Foundation
Van Meeteren Foundation
Texas Instruments
Hasbro, Inc.
Sensata Technologies

$75,000 - $150,000
TRW Corporation
Praxair, Inc.
Thomas Wroe, Jr.

$25,000 - $75,000
Schroff, Inc.
Brown & Sharpe Manufacturing Co.
Bacou USA
Hilti AG
Siemens Corporation
William and Pauline Silvia
Tonya McBride
Robert C. and Judith A. Ayotte
Boxer Family

$2,000 - $25,000
Hexagon Metrology Inc.
W&H Corporation
BMW Manufacturing Corp.
Supfina Machine Co. Inc.
Lufthansa German Airlines
Frank and Lynn Curtin
Ewag Corporation
Draexlmaier Automotive of America
Joseph O’Hearn and Barbara Brusini
Pentair, Inc.
James Hopkins
John and Carol Grandin
Gabriel Lengyel
Richard Vandeputte
Rick D’Ambrosca
Vincent DiPippo
Patrick Tunney
Sigrid Berka/Thomas Kniesche
Walter Giraitis
Michael Byrnes
Laurie Burger
Dissemination

Publications

Berka, Sigrid (2011) “Retaining Engineering Students through a January Term German Immersion Study Tour,” Global Business Languages: Vol. 16, Article 7. Available at: http://docs.lib.purdue.edu/gbl/vol16/iss1/7


Hedderich, Norbert. Co-Editor, The Online Journal for Global Engineering Education.

Rarick, Damon. Co-Editor, The Online Journal for Global Engineering Education.


Dissemination

Presentations

Anagnostopoulos, Constantine, presented on “The Impact of Study Abroad Experience on Graduate Engineering Students – Four Case Studies” at the NSF funded Global Engineering Workshop, Arlington, VA, May 16-18, 2012.

Berka, Sigrid, presented on the “Global Career Pathways” and “Assessment of Work Abroad Programs” panels at the workshop Creating Globally Minded STEM Professionals Through Internships/Work Abroad Programs, hosted by the Institute of International Education (IIE), April 26-27, 2012 Washington, DC.


Berka, Sigrid, (Invited Faculty Speaker) URI Foundation 2011 Donor Recognition Brunch, November 19, Ryan Center, University of Rhode Island

Berka, Sigrid (Invited speaker) at the German Teachers Forum (Deutschlehrkräfte-Tag) at the Goethe Institute Boston, September 17, 2011 (presented the integrated curriculum of the IEP).

Berka, Sigrid organized, chaired and presented in the “Strategies and Sustainability for Experienced International Programs” workshop at the 14th Annual Colloquium on International Engineering Education, Provo, Utah, Nov. 5, 2011.

Berka, Sigrid (Invited speaker) at the Association of Departments of Foreign Languages (ADFL) Summer Seminar, 23-25 June, 2011, Salt Lake City. Presented the International Engineering Program and ran a workshop for language department chairs.


Erickson, Lars, Promoted Language Study and Careers in Languages. Presented URI’s language programs, the IEP, and other affiliated programs to 200 students and teachers at the Career Fair of Narragansett High School. Narragansett, RI. April 12, 2012.
Dissemination

Presentations (continued)


Erickson, Lars, Promoted URI French Program and IEP. Presented the French program, the IEP, and other affiliated programs to 60 students and teachers at Portsmouth High School. Portsmouth, RI. November 17, 2011.

Grandin, John, presented on the panel “Assessment of International Programs through Case Studies” as well as in the “Getting Started” workshop at the 14th Annual Colloquium on International Engineering Education, Provo, Utah, November 3-5, 2011.


Pérez-Ibáñez, Ignacio presented a paper at the International Conference Practical Approaches in Content and Language Integrated Learning (University of Navarre 23-25 February), entitled “Los beneficios del enfoque por tareas aplicado al Aprendizaje Integrado de Contenidos.”


Wright, Raymond presented on the IEP at a Professional Engineering Society meeting February 23, 2012 in Providence, RI.


Zimmerman, Katie, Wright, Raymond, and Grinham, Colleen presented the IEP to a group of 125 high school girls at St. Mary Bayview in East Providence, Rhode Island on Jan 23, 2012.
Student Awards and Honors

**Judith A. and Robert C. Ayotte French IEP Award**
Zachary Lorusso ‘14 French IEP
Michael Gardner ‘14 French IEP

**Beatrice S. Demers Foreign Language Fellowship**
John Adley ‘14 Spanish IEP
Maria Briones ‘14 Spanish IEP
William Machado ‘14 German IEP
David Powers ‘14 German IEP
Farid Topchiev ‘14 German IEP

**Dornberg Award**
William Machado ‘14 German IEP
Farid Topchiev ‘14 German IEP

**French IEP Excellence Award & Excellence in French Studies Award**
Raena Morley ‘12 French IEP

**John M. Grandin IEP Scholarship**
Emily Serman ‘14 German IEP

**Shawn P. McBride Memorial IEP Scholarship**
Maria Briones ‘14 Spanish IEP

**William and Pauline Silvia IEP Scholarship**
John Adley ‘14 Spanish IEP

**Violet Grace Hellman Endowed Prize**
Omar Perez ‘15 Spanish IEP

**Sharon Wallace Memorial Scholarship**
Emily Serman ‘14 German IEP

**Barbara Woods Memorial German Studies Award**
Nicholas DaSilva ‘14 German IEP
Eli Lamothe ‘15 German IEP
Aaron Zarenski ‘14 German IEP

**Frank L. Woods Memorial Scholarship**
Ian Calise ‘16 German IEP
Lucas Hanson ‘16 German IEP
Riley Tuttle ‘16 German IEP

**Wroe Family Chinese IEP Scholarship**
Sam Leblanc ‘14 Chinese IEP
Sarah Wood ‘14 Chinese IEP
IEP Awards and Honors

Program Recognition

**Andrew Heiskell Award for Innovation in International Education** was awarded to the IEP for innovation in Study Abroad (nominated by Sigrid Berka). Raymond Wright and Sigrid Berka received the award on March 9, 2012 in New York City.

**Recognition by the National Academy of Engineering**: The College of Engineering was chosen as one of 29 engineering colleges in the country to be recognized for *Infusing Real World Engineering in Undergraduate Education* through the IEP. Dean Raymond Wright of COE nominated the IEP and COE to be included in the upcoming NAE publication.

Faculty Recognition

**ADFL Award for Distinguished Service to the Profession** was given to John Grandin, IEP Director Emeritus. John received the award at this year’s MLA session entitled Expanding the Language Mission across the Disciplines: A Session in Honor of John Grandin at the Modern Language Association meeting in Seattle on January 6, 2012.

**DAAD Alumni Award for International Exchange** was given to John Grandin in recognition of exceptional work accomplished by him toward the promotion of international exchange and scholarship.

Sigrid Berka was voted in unanimously as a trustee for the **DAAD Alumni Association** on April 17, 2012.

**RIFLA (Rhode Island Foreign Language Association) Award for Advocacy** was awarded to John Grandin at the University of Rhode Island on May 2, 2012.

Sigrid Berka and Dean Ray Wright (center, right) accepted the Heiskell Award for Innovation in Study Abroad from IIE President Alan Goodman (left) on March 9, 2012 in New York City.
APPENDIX
IEP Outreach Update 2011-2012

Updated Outreach Materials and Media

Brochures: Completed and printed in August 2011, the newest IEP Brochure is a catching and colorful summary of the IEP. The brochure is an overview of the undergraduate IEP options and also includes a brief summary of the dual degree masters and doctorate programs.

Videos: The IEP was the subject of or featured in several promotional videos, which were produced by the College of Engineering’s Director of Marketing and Communications, John Peterson. The are published in COE’s Innovations magazine and are available for viewing from the IEP and COE website.

Facebook Advertising Campaign

The IEP ran a 39-day advertising campaign on Facebook during November 2011, December 2011, and January 2012. The campaign, divided into 2 phases, targeted high school juniors and seniors. The advertisements were viewed by over 1.1 million facebook users.

School Visits and College Fairs

Visits completed by IEP directors, IEP staff, College of Engineering faculty, IEP student ambassadors and IEP alumni during the 2011-2012 school year.

Beverly High School          Beverly, MA
St. Mary Bayview Academy     East Providence, RI
Bishop Kenny High School     Jacksonville, FL
Episcopal High School       Jacksonville, FL
Bolles School               Jacksonville, FL
Narragansett High School Career Fair Narragansett, RI
Portsmouth High School       Portsmouth, RI
Park City High School        Park City, UT
College Fair at Academy of IT & Engineering Stamford, CT
Lower Hudson Valley Engineering Expo White Plains, NY

Presentations

Sigrid Berka spoke at the German Teachers Forum (Deutschlehrkräfte-Tag) at the Goethe Institute Boston on September 17, 2011

Lars Erickson presented the IEP at the Narragansett High School Career Fair to 200 students and teachers at the Career Fair of Narragansett High School on April 12, 2012.

Norbert Hedderich presented the IEP and dual degree programs to Eastern Massachusetts Foreign Language Teachers Association at Lasell College in Newton, MA on March 14, 2012

Katie Zimmerman, Raymond Wright, and Colleen Grinham presented the IEP to a group of 125 high school girls at St. Mary Bayview in East Providence, Rhode Island on Jan 23, 2012.

Katie Zimmerman presented the IEP and IEP outreach strategies to URI Admissions Officers during their orientation and training on September 13, 2011.
The University of Rhode Island’s innovative International Engineering Program (IEP) is designed to give graduates a global marketplace edge – adding to a BS in an engineering discipline a BA in one of four languages: German, French, Spanish or Mandarin. It recently won a Heiskell Award, one of the Institute of International Education’s highest honours.

At a time when language programming is falling prey to budgetary axes everywhere and global companies are crying out for qualified engineers, the IEP stands out as being “inspired and dramatically successful”, noted Allan Goodman, CEO and president of the Washington DC-based institute.

Since 2001, the Heiskell awards have applauded the efforts of institutions and organisations that realise the goal of higher education internationalisation through innovative programming and initiatives by member universities and colleges.

Specifically, these are programmes that encourage the creation by international education professionals of study and collaborative opportunities, ensure that international education is at the forefront of education policy, and – in particular – showcase the benefits of study abroad and international educational exchange to the general public.

In 2012, the emphasis has been on “initiatives that remove institutional barriers and broaden the base of participation in international teaching and learning on campus,” explained Goodman. The winning programmes in four categories are showcased on the IIE Network Best Practices website, and the awards will be presented at a conference on 9 March.

The University of Rhode Island’s IEP distinguished itself from the others in the ‘study abroad’ category.

“It is very rare to see a programme combining language and engineering,” Goodman said, adding: “In fact, those that foster engineering collaboration are particularly important in light of the global issues we face today.

“The University of Rhode Island’s IEP is one of these – in responding to the need to encourage academic collaboration and innovative partnerships not only among our nation’s universities, but also on a global scale. Programmes like this are helping to internationalise our campuses – to ‘open minds to the world’.”

How it all began

Even in 1987 it was clear to John Grandin, emeritus professor of German language and literature at the University of Rhode Island, and the then dean of engineering Hermann Viets, that the demands of the global economy justified the creation of the IEP. Both recognised that the traditional language training paradigm lacked applications at advanced levels for students in other disciplines.

But more than this, explained Grandin: “The IEP was built on the observation that the world of business and technology was becoming more and more international and that engineering students would need special training for that reality.”

The IEP’s model, unchanged since its inception 25 years ago, is that of a five-year dual bachelor programme in which students complete a language major alongside the usual engineering curriculum requirements.

In order to reinforce nascent language skills, students embark on synchronous study of and work in both disciplines in a country of their choice during the fourth year. The first six months of study at the partner university are followed by a paid internship at an affiliated company for the remainder of the year.

This internship, said Executive Director Sigrid Berka, is what makes the IEP such a “powerful model. It gives engineering students a purpose and an incentive to enroll in language classes.”
Engineers with a foreign language build global bridges (continued)

Indeed, the internship is “the cornerstone of the programme. Students are interning with engineering firms in the foreign language for six months. It is when they actually get to use their technical as well as linguistic and cross-cultural skills as well as practice becoming an ‘international engineer’.”

She told University World News: “If you look at the linguistic gains made when studying abroad, the highest apply to those studying and applying the language in an area of passion or interest during long-term immersion programmes.”

The first – and still most popular – partner university is one of Germany’s top nine technical universities, the Technische Universität Braunschweig. But today, students can also study at other internationally renowned technical institutions in France, Québec (Canada), Spain, Mexico and China. It is not surprising that unparalleled study-work experiences and a wealth of networking connections have ensured that this integrated programme boasts a graduate employment rate of nearly 100%.

Global giants such as BMW and Johnson & Johnson, as well as mid-sized or small local enterprises like Sensata Technologies and Supfina, value the fact that IEP graduates can be used as ambassadors across linguistic and engineering cultures and mediate effectively between headquarters and their parent operations or subsidiaries abroad.

In keeping track of real world needs, the IEP has achieved outcomes few programmes are able to deliver: culturally flexible and mobile engineering professionals who can and will succeed in the global marketplace.

Attraction for students

Fairfax, Virginia native Payam Fahr’s interest in the IEP was first piqued by the fact that fewer than 3% of all American engineers study abroad – but it was the internship that was the real draw. In his fourth year, he studied initially at the technical university and its affiliated Institute for Automotive Engineering in Braunschweig. Thereafter, Fahr embarked on an internship at the BMW Research and Innovation Center in Munich where he was able to pursue his real passion: that of automotive racing.

“Overall, the internship was the best experience of all,” he explained: “The IEP offers more than just an academic track for two degrees, it allows one to gain international and cross-cultural life experience which is absolutely precious in this day of globalisation.” Fahr summarised his experience: “It provides opportunities and life experiences – something more valuable than just the piece of paper one receives after a period of studies.”

These kinds of positive experiences help also to explain why the IEP is not as dominated by men as many engineering courses. Women represent nearly 30% of the programme’s total enrolment but account for only 17% of the overall cohort in the college of engineering.

Raena Morley, a chemical engineering and French major, spent her fourth year abroad with the IEP studying first at the Université de Technologie de Compiègne and then interning for six months with Toray Plastics in Lyon, France. Part of her decision to enrol in the IEP was to study abroad in a foreign language. Engineering was the way to make that happen, she told University World News:

“I had always dreamed of studying aboard, and this programme presented the perfect opportunity to do so. In fact, it allowed me to pursue engineering without foregoing the liberal arts.”

Attempting to explain why it appealed to her – and perhaps to other women in the programme – Morley noted that “the IEP brings something to the table for both sides of the brain: although undertaking a double major definitely increased my course load, the French courses often served as a welcome escape from the (seemingly) endless engineering calculations!

“I am positive that I would not have had the same experience with any other engineering programme elsewhere,” she stated emphatically.
Institute of International Education Announces Winners of the 2012 Andrew Heiskell Awards for Innovation in International Education
Nine Campuses Recognized For Their Outstanding International Initiatives

Press Release from the Institute of International Education

NEW YORK, January 26, 2012 — The Institute of International Education (IIE) is pleased to announce the winners of the eleventh annual IIE Andrew Heiskell Awards for Innovation in International Education. The awards honor the most outstanding initiatives in international higher education among the member campuses of the IIENetwork, IIE’s membership association of more than 1,100 higher education institutions. IIE will present the awards at a ceremony in New York City on March 9, 2012 as part of its seventh annual Best Practices in Internationalization Conference for campus professionals. More than 200 campus leaders and international education professionals in the United States and around the world attend the conference each year.

IIE’s Heiskell Awards showcase the most innovative and successful models for internationalizing the campus, study abroad, and international partnership programs in practice today, with a particular emphasis on initiatives that remove institutional barriers and broaden the base of participation in international teaching and learning on campus. This year’s awards will recognize seven initiatives that are being conducted by nine campuses, plus an additional 17 campus members of the Rwanda Presidential Scholars Program consortium, this year’s winner for International Partnerships.

The winning campuses for 2012 are: University of Kentucky (Winner - Internationalizing the Campus); Howard Community College and the Community College of Baltimore County (Winners - Internationalizing the Community College); Community College of Philadelphia (Honorable Mention - Internationalizing the Community College); Hendrix College (Winner - International Partnerships, leading a consortium of 18 campuses); Victoria University, Australia, and University of Texas at El Paso (Honorable Mention - International Partnerships); University of Rhode Island (Winner - Study Abroad); and University of Georgia (Honorable Mention - Study Abroad).

Excerpt from the Institute of International Education’s website: http://www.iie.org

The University of Rhode Island’s groundbreaking International Engineering Program (IEP) serves as a model for engineering and language educators across the entire country. The concept is simple: it is a five-year dual degree bachelor’s program through which students simultaneously earn a BS in an engineering discipline and a BA in a foreign language. In their fourth year, students study language, culture, and engineering courses in the target language at top engineering partner schools in Germany, France, Spain, and China. The second semester is spent interning for six month in a partner company abroad.

In times where language programs are being cut at schools and colleges across the country, the IEP serves as a powerful model for increasing foreign language enrollment. Students see a purpose, applicability, and clear career impact of their language studies. For example, ninety percent of the German language majors at URI are engineering students—proof of the impact the IEP has had on foreign language enrollment and a powerful testimony that the IEP is the main driver of internationalizing the campus. Pairing language and cultural studies with another academic program gives students opportunities at global companies with offices in the U.S. and around the world through the five-year dual degree IEP program.
International Engineering Students Reflect on their Internship Experience


The 2011-2012 cohort abroad began their internships in their respective countries the end of January or beginning of February 2012. Here are some of their initial impressions on the experience after just a few weeks.

“...the internship is going great, I am researching coal gasification to synthetic gas for production into fuels and electricity. Starting work was quite different than I expected. Despite being in a German company in Shanghai (Bayer), there is almost no English spoken at work, and what I thought was going to be just research has turned out to be really fun and a possible career path for myself. I am already wrapping up my first report on the different gasification technologies available and will soon be moving on to the actual production of methanol from syngas.”

Chris Andraka ‘13
Chinese & Chemical Engineering
Currently interning at Bayer in Shanghai, China

“You don’t realize how an international company truly functions until you start working there. One minute my two colleagues are discussing in French about a new part. The next thing you know, they are calling China about the same part that is to be shipped to Brazil, yet speaking English. It is quite dynamic how one company can make a specific part - there are so many different people, languages, and cultures involved.”

Nicole Bonvouloir ‘13
French & Mechanical Engineering
Currently interning at Total in Paris, France
German Study Tour 2012

This year’s study tour was a big hit, with numerous company visits and cultural and linguistic experiences. The students were hosted by the following IEP partner companies: Lufthansa Technik in Hamburg, DB in Hamburg and Berlin, the VW factory in Braunschweig, Merck KGaH in Frankfurt, BASF in Ludwigshafen, and Leitz Messtechnik in Wetzlar. The group also had the chance to tour TU-Braunschweig and do some sightseeing and historic tours in Berlin, Hamburg, and Frankfurt.

Student reflections on the trip attest to its educational and personal impact.

**Nick Zonfrillo ‘15 GIEP/CHE**

“The BASF tour inspired me and made me realize that I do want to be a chemical engineer. I was so amazed, it has made me more excited about my degrees. I hope that I may work for BASF someday for an internship or even a job. ...We were all so sad to be leaving Germany, because we all had such a good time. However, I can’t wait to be back. During the trip I felt like I was immersed in so much of the culture. It allowed me to see some companies, practice some German, and get me more excited about both of my degrees. Germany is an amazing country, and for the next time I go back- Ich freue mich darauf! (I look foward to it!)”

**Joseph Sullivan ‘16 GIEP/CHE**

“Hearing how often and when a word is used is a part of language that is learned best outside a classroom. I also feel as though I am much more comfortable after being in Germany and knowing how much I need to learn in order to speak and be understood....The trip has also made me more confident in my German speaking as a whole, and has naturally piqued my interest and motivation to learn the language.”
One highlight of the 2012 Study tour was a visit to Hexagon Metrology (Leitz Messtechnik) in Wetzlar. We took along a group of Mechanical and Electrical Engineering majors. Ingo Lindner, Director of R&D, provided an excellent tour of their Coordinated Measurement Machines (CMMs) and precision instruments. We currently have Sean Taylor ‘13 (German & Mechanical Engineering) interning for the company.
Student Profile: Colleen Grinham takes the worldview

Colleen Grinham always knew she wanted to help people. As a young girl, she set her sights on donning a white coat and becoming a medical doctor. Then she encountered blood. Her plans changed.

These days Grinham, now an engineering student, still aims to help people - millions of them.

Grinham wants to find better ways to provide drinking water and treat wastewater. While it may sound like a dirty and unglamorous job, it is one very much in demand. The United Nations estimates that two in every 10 people in the world lack access to clean drinking water. The World Health Organization says that every day 3,900 children die because of dirty water or poor hygiene brought on by a lack of clean water.

Getting clean water to impoverished or drought-stricken areas requires political will and a small army of engineers. Grinham wants to be on the front lines, finding cheaper, faster and more environmentally friendly ways to treat wastewater.

“I never thought I would end up in my niche, but I’m glad I did,” she says. “I’ve always been putting myself out there to help others.”

“Out there” for Grinham is the world. The 22-year-old Massachusetts native has visited more than 26 countries, about 14 of them thanks to programs offered through the University. She spent a year in Germany alone as part of the University’s International Engineering Program curriculum.

For six months, she studied at the Technical University of Braunschweig and researched at the Institute of Sanitary and Environmental Engineering. There, she found ways to design wastewater treatment plants that can simultaneously filter water and use the methane released to generate electricity.

After her time in Braunschweig, Grinham traveled 200 miles to the southwest to intern at a Bayer plant in Leverkusen. Standing shoulder-to-shoulder with German engineers, Grinham worked to improve Bayer’s wastewater treatment systems that are implemented at the company’s plants around the world.

And the German engineers listened because Grinham spoke in flawless German, technical words and all, thanks to courses she completed at URI. She complemented those classes with Arabic classes and, crisscrossing Europe, she picked up Greek, Spanish and Italian language skills.

Soon she hopes to speak six languages and become an engineer who can not only solve the world’s problems, but communicate the solutions as well.

Global Learning: URI’s International Engineering Program is crossing borders and opening minds.

Alissa McKechnie spent last summer designing the latest Nerf Blaster at Hasbro’s headquarters in Pawtucket, R.I. In the coming months, she will witness the rollout of the design at the company’s Hong Kong manufacturing plant.

“It’s kind of crazy how it can start in one place and end in another and it gets shipped right back to the U.S.,” says McKechnie, a mechanical engineering student.

McKechnie, 22, arrived in Hangzhou, China, in August with four other students from the college’s International Engineering Program and two students from URI’s College of Business Administration. The aspiring engineers will spend the next six months at Zhejiang University, followed by a semester working at an international company.

The group is the largest contingent of IEP students to land in China since the program launched a Chinese offering three years ago. Since then demand has steadily grown in the Chinese program as well as the French, German and Spanish offerings. Today, close to 300 students participate and are on track to earn both a bachelor’s in engineering and in a foreign language.

“Alissa shows how our award-winning program trains students as global engineers,” IEP Executive Director Sigrid Berka says. “With their fusion of engineering and linguistic skills, they become innovators with exciting careers, bridging effortlessly between different hemispheres and engineering cultures.”

McKechnie expects that global knowledge to prove crucial as she prepares for life after URI. She knows from her time at Hasbro that the company craves engineers with multilingual skills and global experience.

She will also come armed with intimate familiarity of Hasbro’s Chinese operations, something few Hasbro employees can claim. Her knowledge will include the technical - the schematics and the machinery - as well as the cultural - noodles and spinach pancakes for breakfast. And there will be little doubt about her foreign language skills: her eight courses at Zhejiang University are all taught in Chinese.

“It’s such an intense and new experience you can’t pass it up,” she says.

With many thanks to John Grandin for going the extra mile!

GOING THE EXTRA MILE
University of Rhode Island
Engineers in the Global Workplace

John M. Grandin

Photo credit: Payam Fahr, GIEP '12