School of Engineering and Computer Science Board of Advocates Meeting
October 5, 2007

Computer Science Breakout Session

Board Members: Larry Johnson, Rich Maule, Dean Swisher, Trent Viogt, Matt Watson

Agenda topics
1) Introduction of Assessment of CSI Program Objectives and Graduate Outcomes (1:00 – 1:10) – Booth
2) A discussion with CSI/BINF students (1:10 – 1:45) – Fry
3) New Degree BSECSS with a Computer Science Follows major (1:45-1:55) - Gaitros
4) The Gaming – Simulation Concentration under BSCS (1:55 – 2:20) – Donahoo/Sturgill
5) The Software Engineering Concentration under BSCS (2:20 – 2:45) – Grabow/Song
6) Completion of the ECS Board of Advocates Assessment Survey (2:45-3:00)- Booth

General Information
1) 14 faculty members – 10 Ph.D., 4 M.S.
2) 3 staff members
3) 6 new courses added
4) 7 courses modified
5) 36 courses offered
6) Enrollments: Spring 06: 405, Summer 06: 55, Fall 06: 455
Undergraduate Enrollment Fall 07 – 505
18 Graduate Students Fall 07

7) Undergraduate Student Scholarship Awarded for 06-07

<table>
<thead>
<tr>
<th>New Freshman – Name</th>
<th>Scholarship Name</th>
<th>Scholarship Account</th>
<th>Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burk, Cameron</td>
<td>Mearse Wm/Tanya Schp</td>
<td>037SDVJ</td>
<td>2006-2007</td>
<td>$1,550.00</td>
</tr>
<tr>
<td>Rhodes, David</td>
<td>Mearse Wm/Tanya Schp</td>
<td>037SDVJ</td>
<td>2006-2007</td>
<td>$950.00</td>
</tr>
<tr>
<td>Rhodes, David</td>
<td>Nolen D/M Jas-C/E Sci Schp</td>
<td>037SBRW</td>
<td>2006-2007</td>
<td>$600.00</td>
</tr>
</tbody>
</table>

Current Student Awards

| Patel, Achal        | Assoc Computing Machinery Schp | 037SCIK | 2006-2007 | $1,515.00 |
| Rooney, Kevin       | Assoc Computing Machinery Schp | 037SCIK | 2006-2007 | $2,100.00 |
| Kenley, Edward      | Assoc Computing Machinery Schp | 037SCIK | 2006-2007 | $470.00 |
| Kenley, Edward      | Estes Family Schp | 037SDFV | 2006-2007 | $1,355.00 |
| Kenley, Edward      | Engineering/Computer Sci Schp | 037SDXT | 2006-2007 | $210.00 |
| Carroll, Robert     | Measures Mark/Carol-C/S Schp | 037SDCT | 2006-2007 | $1,800.00 |
| Straw, Dustin       | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,700.00 |
| Wilson, Justin      | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,700.00 |
| Johnston, Eric      | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,700.00 |
| Burke, Andrew       | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,400.00 |
| Will, Jordan        | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,400.00 |
| Bass, Joseph        | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,400.00 |
| Adams, Wesley       | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,400.00 |
| Eahman, Whitt       | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,400.00 |
| Love, Jeremy        | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,400.00 |
| Walker, Andrea      | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,400.00 |
| McDonough, Cory     | Iler John/Ann Schp | 037SDWY | 2006-2007 | $1,255.00 |
07-08 Scholarship funds: $31,525

8) Computer Science/Bioinformatics Scholarship Accounts
   Mark and Carol Measures ACM Scholarship
   Dr. and Mrs. James Nolen Scholarship in Computer Science
   The ACM Scholarship in Computer Science
   Vic and Helen Estes Computer Science Endowed Scholarship
   John and Ann Iller Computer Science Endowed Scholarship
   Trent & Sue-Lynn Voigt Scholarship
   William Eldon Mearse Family Endowed Scholarship
   School of Engineering and Computer Science Board of Advocates Endowed Scholarship
   Engineering/Computer Science Scholarship

9) Papers Published
   o Kelley, B.S., Boon, K.L., Fry, C.C., Abrahams, M.D.; Developing a Global
     Soc. for Engineering Education Gulf Southwest Annual Conf. and paper presented at the ASEE
   o Baker, L.E. and Baker, E.J. Reuniting Families: using phenotypic and genotypic, forensic
   o Sushil, B., Myeongwoo, L., and Baker, E. RNAi phenotypes in C. elegans on the basis of
     sequence similarity. C. Elegans Development and Evolution, University of Wisconsin-Madison,
     WI, June, 2006.
   o Paul Grabow, An Alternative to an Instrumental View of Technology, Institute for Technological
     Encounter with Science and Technology, Spring 2007 bulletin – Paul Grabow
   o Yu Feng, Greg Hamerly, PG-means: learning the number of clusters in data. To appear in
     proceedings of the twentieth annual conference on neural information processing systems (NIPS),
     December 2006.
   o Greg Hamerly, Erez Perelman, Jeremy Lau, Timothy Sherwood, Brad Calder, Using Machine
   o Greg Hamerly, Erez Perelman, Brad Calder, Comparing Multinomial and K-means clustering for
     SimPoint. In the 2006 IEEE International Symposium on Performance Analysis of Systems and
     Software (ISPASS-2006), 2006.

10) Papers & Lecturers Presented
    o Elissa J. Chesler, Roumyana Kirova, Zuopan Li, Andy Perkins, Erich Baker, Michael A.
      Langston Gene-centric combinatorial approaches for discovery of phenotype ontology.
    o Baker, E.J. "Phylogenetics and Bioperl" Vanderbilt Medical Center, Department for Medical
    o RCD survey results – Competitive Learning Symposium, San Antonio TX – Bill Booth
    o "The Development of a Global Worldview," Van Treuren, Kenneth, Eisenbath, Steven, and Fry, Cynthia
    o "An Alternative to an Instrumentalist View of Technology", National Faculty Leadership Conference,
      Washington, D.C., June, 2006 – Paul Grabow
    o "Thoughts on Freedom: in Response to Excellence without a Soul, Baylor University, October, 2006 – Paul
      Grabow
    o 5th Annual CII Symposium in Shanghai, William Poucher, Bill Booth, Jeff Donahoo
      William Poucher
Scholar's Day – Challenging the Next Generation of Computing Professionals, February 3, 2006 **William Poucher**

Invited Speaker - Valladolid University, Games People Play & the ICPC, March 14, 2006 - **William Poucher**

Invited Speaker – Saratov University – Games People Play, October 10, 2006 - **William Poucher**

Invited Speaker – Saratov Magnet School (my translation) – Games People Play, October 11, 2006- **William Poucher**

Invited Speaker – Stockholm KTH University – NEERC Regional Contest, November 19, 2006 - **William Poucher**

11) Papers Submitted


- **Michael J. Donahoo** and Sunila Atapure and Sunitha Ramakrishna, Avoiding Feedback Implosion with Representative Member Selection, accepted to JHSN.


12) Current Grants


- USMRC 06208004. “Root Cause of Post-traumatic and Developmental Stress Disorders” (3 years, totaling $60,000). *Funded – expected start date Jun., 2007* – **Erich Baker**

- ICPC Funding from IBM (about $597,000) – **William Poucher**

- CII Funding from IBM (about $141,800) – **William Poucher & Jeff Donahoo**

- Management Funding from ICPC/IBM (about $90,000) – **William Poucher & Jeff Donahoo**

- R&D Funding from ICPC/IBM (about $34,000) – **William Poucher**

- Additional Funding for World Finals in San Antonio (HEB & IBM) (additional for Fiesta at World Finals $30K) – **William Poucher**

- Equipment Funding for Baylor Competitive Learning Lab from IBM – **William Poucher**

- Additional Funding for World Finals 2007 with Brenda Chow ($250,000) from IBM Research and IBM Japan – **William Poucher**

- Reproducible Architecture Simulation for Multithreaded Applications Sponsoring agency: Intel Corporation Grant amount: $50,000 - **Greg Hamerly & Brad Calder**

13) Proposals Submitted

- Analysis of Biological Networks – Erich Baker

- $6.5 million grant on Microbe Systems Identification and Virulence Prediction to NSF – **Erich Baker & Greg Speegle**

- Baylor YIDP (Young Investigator Development Program) – **Greg Hamerly**

- NSF infrastructure grant, Microsoft new faculty fellowship – **Greg Hamerly**

- NSF proposal - Conjugate Symmetry and Simulation, Random Testing, GPS usage, Component-level programming, Schematic capture for XWindows – **Pete Maurer**

14) Books & Papers Reviewed

- Bill Booth, Reviewer SIGCSE, AERA, ITICSE
- Cindy Fry, Reviewer for Women In Engineering Division of the ASEE 2007 Annual Conference & Exposition
- Cindy Fry, Reviewer for the American Society for Engineering Education National 2006 Conference
- Eunjee Song, Reviewer for Journal of Autonomic and Trusted Computing (JoATC)
- Eunjee Song, Reviewer for Workshop on the Application of UML/MDA to Software Systems (UMSS)