

the debugger




Computer Science Department • Indiana University of Pennsylvania



Fall/Spring 2011
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the debugger
(Fall 2010/Spring 2011
Issue)

Dr. Rose Shumba
Editor-in-Chief

Suggestions?
Submit to:
shumba@iup.edu

EDITOR'S NOTES

Hello from the Editor's Desk

The long-awaited fall/spring 2011 edition of the debugger is here! I hope you will enjoy it.

It is a very special edition; it contains a farewell statement from Charley Shubra, who retired on June 3, 2011, and much more.

To Charley, please accept my warmest congratulations upon your retirement. You have enjoyed a long and productive career of which you can justly be proud. Your many contributions as Faculty and Chair of the Computer Science Department, at IUP are widely appreciated. You certainly demonstrated a lot of vision and initiative in working to improve this department. We will no doubt miss you. The only trouble with retirement Charley is that you never get a day off.

Also included, in this edition, are highlights from the 2010 Information Assurance (IA) day. I want to thank some of our alumni, who contributed to make this day and all previous annual IA days a success. A very special mention to Dom Glavach, CTC, Johnstown, PA for his continued support of this day. I would urge those of you, who are in IA, to read the article and see if you would like to be part of our program for upcoming IA Day. Please let me know if you can help with the day.

Yvonne and Carol have cooperated in putting together the Alumni News/Updates. Thanks Yvonne and Carol.

By the way, I am the new editor of the debugger.

Enjoy reading and stay in touch.
Rose Shumba (shumba@iup.edu)

Rose Shumba, Editor

From the Chair

--Charley Shubra

Hello loyal readers of the Debugger. This is the final “From the Chair” column to be written by Charley Shubra. The past three years as chairperson have been challenging and rewarding. It took a spirited election for me to win the chairperson position and I have had a number of faculty who did not initially support me for the office state that I had done a good job. While I think it is healthy to have several candidates for the office, once someone is chosen the faculty need to pull together and get the work done. I have been very pleased with the support and cooperation from the faculty, staff, administration, alumni and corporate contacts. Together we have made advances as a department.



Dr. William Oblitey will serve as chairperson for the next three years after another spirited election. Bill will be taking over on May 1, 2011. This will be Bill’s third tour as chairperson. I wish him all of the success in the world.

It appears that the accreditation process will have a happy ending. We hosted the ABET visit in October 2010 and could not have asked for a better team to work with. Dr. Thomas Horton chairperson of the Computer Science department at the University of Virginia was the lead investigator for the visitation committee. ABET provided a formal report at the end of January which gave us thirty days to address the few issues they uncovered. Dr. Terry Fries and Dr. David Smith headed the efforts toward corrective actions and generated the departmental response to the ABET report. We have shared this response with Dr. Horton (at his suggestion) and he is very pleased with the results. We have to wait until the July meeting of ABET for the formal vote on accreditation, but my sense is that the B.S. in Computer Science Languages and Systems track will be accredited. What a long process.

Enrollment continues to climb. The number of incoming freshmen, transfer students, change of majors within IUP and the number of minors are advancing. The faculty and Yvonne have all worked hard at recruiting and advising. The economy has helped with the number of positions available to computer science grads and interns continuing to be strong. Last summer we had our first Summer-Summer interns. This addition to the internship offering was at the suggestion of the Corporate Advisory Board. Last year we had two Summer-Summer interns, one Spring-Summer intern and nine Summer-Fall interns. This represents a healthy increase over the number of interns for the past five years. Dr. David Smith who will be taking over as intern coordinator for Computer Science has nineteen candidates approved for internships this year. David could use a few more sites, but things look good.

On the curriculum front, COSC 108 and introduction to programming using ALICE has cleared the department and is progressing through the approval process. This non-majors course provides a kinder-gentler introduction to programming. Thanks to Dr. Smith for bringing this course to IUP. Dr. Rose Shumba has created a Digital Forensics course to be added to the IA track. This course is also progressing through the approval process. Thanks for her hard work.

The budget continues to be a challenge. We were notified that the College of Natural Science and Mathematics (which includes Computer Science) has to identify 1.202 million in permanent savings for 2011-2012. While the department operating budget will take another 10% reduction, the only place where that level of funds exist is in personnel. The dean's plan contains something to the effect of "Eliminate Shubra". Now while I might take this personally, it means that all open positions will be returned to the college and not filled. This might not be the final budget year requiring deep cuts piled on top of deep cuts.

Good news on the money side deals with scholarships. Bill Richardson (Computer Science – 1981) has made funding available for scholarships to support and attract highly qualified students to our major. Bill has been a long time financial supporter of the IUP Foundation accounts established specifically to support departmental activities. Bill's contributions are matched by IBM which he works for. I want to thank Bill and all the long time financial supporters of the Computer Science Department.

Jimmy Maple has endowed a scholarship in honor of his father, the co-founder of the Computer Science department Jim Maple. I have known the Maple family for over four decades. Jimmy was my advisee and Jim and Nancy were as close as friends can be. I baby sat for the Maples while Jim and I were working on our Masters Degrees at Penn State. Their friendship is very special to me. The first awarding of the James Maple scholarship will occur this spring. The Howard Tompkins scholarship continues to be awarded and has a long history of supporting computer science students. The Tom Cunningham family has provided a scholarship in honor of Tom's contributions to IUP. The Cunningham family has always been counted as close friends.

Well there you have it. I began as a student at IUP in June 1965. I began teaching in the department in August 1974 (thanks to Jim Maple and Howard Tompkins). This is over 40 years of teaching computer science classes. I have relished the interaction with the students and in fact one concern I had with becoming chairperson was the reduced role I would have in the classroom. I could not have asked for a better ride through life than helping students get a good start. Thanks again to all of you. Know that you meant a lot to me.



News/Updates



Annual Homecoming Breakfast – October 9, 2010

This year's alumni breakfast brought the following people together to enjoy an American breakfast:

Jason Agostoni (1997) and his wife Jackie and daughter Skyler; **Kirk Anderson (1987)** and his wife Dawn; **Chris Boehm (2006)** and his fiancée Jackie Dreshman (Sociology – 2009); **Michael Duda (2009)**; **H. Michael Everett (1997)**; **E. Milton Ferguson (1996)** and wife Lori and son Ian; **Jon Fischer (1987)** and wife Rebecca and daughters Jordan and Lauren; **Terry Fries (COSC faculty)** and wife Chris and daughter Rebecca; **Tim Jamison (1998)**; **Ben Madore (2006)**; **Carol Miller (ret. 2009)**; **Ed Moore (1995)**; **Anthony Popp (1998)** and his daughters Victoria, Vivian, and Antoninette; **Michael Rudge (1983)** and wife Celeste; **Charles Shubra (COSC faculty)** and wife Leigh; **Dave Wagner (1984)**; **Eric Wells (2003)** and wife Jen and children Tyler and Lily.

UPDATES

Jason Agostoni (1997) is the Senior Software Architect with CEI.

Kirk Anderson (1987) is the Senior Systems Engineer with SRI International.

Chris Boehm (2006) is a Senior Programmer Analyst with Dollar Bank.

Michael Duda (2009) is a Software Developer with SAIC.

H. Michael Everett (1997) is with IBM.

E. Milton Ferguson (1996) is a programmer with Sheetz, Inc. based in Altoona.

John Fischer (1987) is the IT Director for Giant Eagle, Inc.

Tim Jamison (1998) has been doing consulting work with Johnson Controls in York, Pennsylvania working on control panels and motor control for industrial chillers. The consulting work is in addition to his duties as a Software Engineer with Software Design Solutions, Inc. Future plans include a three-month summer vacation in Japan.

Benjamin Madore (2006) recently married another IUP alumnus, Colleen Dugan, who graduated in December 2004 with a BA in Archeology.

Edward Moore (1995) is inquiring “Aston, where are you?” Ed is the manager of Information Systems with The DeGol Organization in Altoona.

Anthony Popp (1998), his wife Karin and children: Victoria, Vivian, Antoninette, and Frederick, want to inform everyone of an addition to the family. It is a Boston terrier named Smoochie.

Michael Rudge (1983) and his wife Celeste also want to update everyone on their addition to the family. A Morkie pup named Cali. Michael is working for IBM as a Certified Product Specialist.

Dave Wagner (1984) is working for Google as Engineering Director in the Seattle area.

Eric Wells (2003) is a CM Engineer with Ansaiddo STS USA based in Pittsburgh.

COSC Homecoming Breakfast - The Computer Patch



The Department of Computer Science Annual Alumni Homecoming Breakfast was held on Saturday, October 9, 2010. As a family event, several of our alumni children were in attendance. The talented young artists provided us with their colorful interpretation of COBOL. We are anxious to see what next year will bring. Children, thank you for donating your artwork making our hallway bulletin board more festive.

Photo by Joshua Schwartz

OTHER NEWS:

Carol Miller (retired 2009) contributes to *The Debugger* so please continue to contact Carol with news you would like to share with the department and its alumni. Her email addresses are: rellimac62@gmail.com or camiller@iup.edu. You may also send information to **Yvonne Dougherty** at ydougher@iup.edu.

Melissa Karolewski (2007) recently became engaged and is looking at a possible November 11, 2011 wedding date.

Rebecca “Becky” (Salter) Corinda (1994) welcomed a baby girl Norah Ellen on March 30, 2010 weighing in at 7 lbs 1 oz, 20 inches long.

Welcome to the Rank of an Alumnus

Congratulations to the following Computer Science majors who graduated 2009-2010 and 2010-2011:

2009-2010

Dane Alabran
Daniel Barren
Tyler Boyer
Christopher Brown
Brian Corl
Paul Curtis
Benjamin Custer
Steve Drochek
Sean Hastings
Brent Kensey
Shi Li
Christopher Ripple
Abby Rogan
John Rowley III
Luke Shiffner
Travis Tom
Habasse Traore
Joshua Waibel

2010-2011

Jonathan Alter
Matthew Baumgartner
Phillip Yu
R. Li Casanova
Jason DiDomenico
Daniel Hanlon
Edward Karloski
Brian Marks
Albert Ngo
Stephen Ogline
Gabriel Owens
Juan Palomino
Jason Plank
Steven Popovic
David Pouchot
William RC Smith
Jason Swoyer
Jay Thayer
David Thomas
Jeremy Thompson
Daniel Usher
Craig Uss
Joshua Winwood



Mark the Date: Saturday, October 1, 2011

The annual Computer Science Department's Homecoming Alumni Breakfast will be held in 327/329 Stright Hall. The breakfast event will begin at 8:30 AM and conclude when the parade starts at 10:00 AM. Alumni are requested to RSVP by September 23, 2011 to Yvonne Dougherty, COSC Secretary, at 724.357.2524 or send an email to ydougher@iup.edu. See you then.

10:00 AM – Homecoming Parade

10:30 AM – Pre-game in the Oak Grove and Kidz Karnival

11:00 AM – Crimson Huddle: All-Alumni Pre-game Picnic (location: Practice fields behind Miller Stadium)

2:00 PM – IUP Crimson Hawks vs. Edinboro Fighting Scots

6:00 PM – Fifth Quarter Celebration, Upstairs @ Coney

(IUP Alumni Association will provide complimentary appetizers, a cash bar, a disc jockey, etc.)



VS.



Information Assurance Day **2010**

--Rose Shumba

The 2010 Information Assurance Day

The Computer Science Department in collaboration with the Institute of Information Assurance at IUP hosted the 3rd Annual Information Assurance day on November 9, 2010. This all-day event, which was very well attended, featured a wide range of speakers on various topics in Information Assurance.

The featured speakers included Mr. Dominic Glavach and Mr. Scott Zimmerman, from Concurrent Technologies Corporation (CTC), Mr. Daniel Larkin, Former FBI Unit and Chief Current Director of Strategic Operations – NCFTA, and Mr. Eric Gruss, Vice President, Information Security Officer and the Information Technology Manager, Reliance Bank, Altoona.

Mr. Dominick (Dom) Glavach (CISSP) is an IUP Alumni and Principal Information Systems Security Engineer at CTC. He has extensive experience in cyber-attack methods, trends, and counter-measures; intrusion detection; computer incident response; and malware analysis.

Mr. Scott Zimmerman is Principal Technical Advisor for CTC, and has 27 years in IT and Cyber Security experience. Mr. Daniel Larkin is a Distinguished IUP Alumni of 2008 with extensive experience in international cyber-crime. Some highlights of Mr. Larkin's achievements include establishing the first Cyber Fusion Unit for the Federal Government, enabling Govt/Law Enforcement to effectively co-locate with Subject Matter Experts (SMEs) from industry & academia, authoring the FBI's National Cyber Crime Strategy, establishing the first Public/Private Alliance Joint (Industry, Academia & law enforcement) initiatives for the FBI addressing Criminal Spam, Phishing-Credit Card Fraud, Identity Theft and International Money Laundering, which are continuing, initiating and managing the first FBI National Undercover Operation, targeting international Cyber Crime, and developing the Internet Risk & Resource Assessment Project (IRRAP) to educate and empower law enforcement and secondary educators regarding child exploitation via the Internet.

Mr. Eric Gruss has extensive experience in WANs, VPNs, wireless, and IP telephony technologies. He has designed, implemented, and supported large-scale projects across PA and sometimes beyond. Mr. Gruss presented on, “*Network Security, It's More Than Just a Firewall*”. The presentation focused on practical methods of assessing and mitigating risk through a multilayered approach to security; proper firewall rules, VLAN use, server ports and services, user access rights and desktop security. Mr. Glavach and Mr. Zimmerman presented on *Cloud Forensics*. The talk gave an overview of the variety of technical issues concerning cyber forensics in the cloud as well as provided an overview of what cloud computing is. Mr. Larkin presented on, “*Recent Evolutions in the Fight against International Organized Cyber Crime*”.

The presentations were very informative, very well attended and very well received. Audience included IUP Technical Support Services personnel, faculty from our IA collaborating partners; Butler and Pennsylvania Highlands Community Colleges, and faculty and students from IUP. Each session had at least 50 attendees. The event was a great success. Thank you to you all, who made this event such a success; our presenters, and our collaboration partners.





Scholarship recipient Matthew Duman; James E. Maple, son of the late James H. Maple; and scholarship recipient Christopher Simpson.

Two local students have been selected as the first recipients of a scholarship honoring a former IUP mathematics professor and founder of the IUP Computer Science Department. Matthew Duman, of Cherry Tree, and Christopher Simpson, of Simpson Road, Indiana, are the recipients of the James H. Maple Scholarship Fund for Computer Science at IUP. The scholarship was established by James E. Maple, of Purcellville, Virginia, son of James H. Maple and a 1986 graduate of IUP, and other family members and friends.

Duman, son of Raymond and Carol Duman, will graduate in June from Purchase Line Junior-Senior High School. He will be a computer science/languages and systems track major at IUP.

Simpson, son of Scott and Judy Simpson, is a 2009 graduate of Indiana Area Senior High School. He is a computer science/information assurance track major at IUP and a dean's list student.

Simpson is a member of Phi Eta Sigma honors fraternity, IUP's Martial Arts Club and the Computer Science Department's Programming Team. He also volunteers as an elementary wrestling coach and is a network (technology) consultant for the Office of Housing and Residence Life.

The James H. Maple Scholarship fund offers two scholarships: one for a junior or senior computer science major at IUP in good academic standing and one for an incoming freshman majoring in computer science at IUP who is a graduate of Indiana Area Senior High School or an Indiana County resident.

Maple, who died in January 2008, began work at IUP (then Indiana State Teachers College) in 1964. He was a faculty member in the IUP mathematics department until 1971, when he co-founded the Computer Science Department. He taught in that department until his retirement from IUP in 1994. Before working at IUP, he was a mathematics teacher in Ohio and Connecticut. He was a 1951 graduate of California Community High School and attended Purdue University from 1951 to 1954, when he was drafted by the Army. He served in the military from 1954 to 1955. He received his bachelor's degree in mathematics from California State Teachers College and his master's degree in mathematics from Bowling Green University in Ohio. Maple continued his education at Penn State University, Kent State University in Ohio and the University of Pittsburgh, where he took graduate courses in computer science and did other graduate work. He moved to Bemus Point, New York, in 1996. Maple was a member of Ingjald Lodge 65 Scandinavian Fraternal Organization, American Veterans and Lakewood Rod and Gun Club in New York. During his spare time he enjoyed woodworking, bird watching and was a volunteer at the Chautauqua County Humane Society in New York.





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