Teaching accessibility

Bruce Elgort

Clark College computer technology instructor Bruce Elgort recently received grants from the national organizations Teach Access and the Partnership on Employment & Accessible Technology (PEAT), as well as the Washington State Board for Community and Technical Colleges (SBCTC), to incorporate accessibility principles into computer science curriculum.

Elgort was just one of 13 faculty members across the nation to receive this grant and the only instructor from a community college to do so. He plans to use the funds to enhance his current curriculum so that it expands its teaching of Universal Design principles.

"We teach accessibility in our HTML classes—you know, 'add a description to all your images so people using screen-reader technology know what they are,'" Elgort said. "It's time to start taking accessibility further. It's time to create forms for people with cognitive disabilities, or physical disabilities that go beyond visual impairment."

The topic is deeply personal for Elgort, who is visually impaired himself. "I am a user of accessibility," he said. "I am someone who is challenged as a user of technology."

Funded by Teach Access and PEAT, the Teach Access Curriculum

Development Award totals $5,000. The SBCTC is matching that grant with an additional $5,000. Elgort plans to use the funds to develop curriculum enhancements over the summer, and have them ready to share with other faculty in the fall.

"We're extremely fortunate to have a faculty member like Bruce working at Clark College. His strong commitment to ensuring everyone can use technology is commendable. With the Teach Access and PEAT grant, which SBCTC is matching, Bruce can impact an entire industry by making sure future web developers are equipped to develop accessible technology as soon as they enter the field," said Jess Thompson, program administrator for accessible technology initiatives at SBCTC.

About Bruce Elgort

Bruce Elgort began his career as an electrical engineer and then moved into the world of enterprise information technology. He was responsible for designing and developing collaborative computing solutions to serve global businesses. Elgort also started one of the largest open-source communities for IBM's Collaboration Software division. He is a popular speaker at conferences and industry events. As an entrepreneur, he created the award-winning IdeaJam idea-management software. Elgort began teaching at Clark College in 2013 and has earned the college's prestigious Exceptional Faculty Award in 2014 and 2018.

About Clark College

Located in Vancouver's Central Park and serving more than 12,000 students per quarter, Clark College is Southwest Washington's oldest public institution of higher education. The college currently offers classes at two satellite locations: one on the Washington State University Vancouver campus and one in the Columbia Tech Center in East Vancouver. Additionally, its Economic & Community Development program is housed in the Columbia Bank building in downtown Vancouver.

About Teach Access

Teach Access is a unique collaboration among members of higher education, the technology industry and advocates for accessibility, with a shared goal of making technology broadly accessible by infusing accessibility into higher education, with enhanced training and collaborations with people with disabilities. Teach Access includes members from leading tech companies, academic institutions and disability advocacy organizations and other non-profit institutions. Teach Access operates as a fiscal sponsorship fund at the Silicon Valley Community Foundation (SVCF). To learn more visit teachaccess.org or email info@teachaccess.org.

About the Washington State Board for Community and Technical Colleges

The Washington State Board for Community and Technical Colleges is led by a governor-appointed board and provides leadership, advocacy, and coordination for Washington's system of 34 public community and technical colleges. Each year, about 374,000 students train for the workforce, prepare to transfer to a university, gain basic math and English skills, or pursue continuing education.

A Different Kind of Final

Computer Technology instructor Bruce Elgort brings years of private-sector experience to the classroom.

On Thursday, June 11, students in Clark College instructor Bruce Elgort's PHP and SQL programming class (CTEC 227) will face an audience. While that might be standard for a class in the performance arts, it's less expected in a computer science course focused on complex web and application development questions. However, Elgort believes it is exactly the type of thing that will set them apart as they look for jobs.

"The most important thing is that these students are showing what they learned in solving the technical problems in front of them, but it is also important that they learn how to explain their approach and interact with clients and customers," Elgort said.

Elgort knows, having spent several years in private industry as the president of Elguji Software and, before that, in IT roles with Sharp Electronics and Underwriter Laboratories. He continues to be engaged in national Open Source software

efforts and a variety of other projects. Beyond his deep industry experience, Elgort has distinguished himself as a teacher, earning an Exceptional Faculty Award at Clark College in 2013.

Elgort invites members of the community to attend the presentations, which will take place on June 11 at 4 p.m. in Foster Auditorium on Clark College's main campus. The crowd of 50 to 60 individuals from the tech community and Clark College are there to provide feedback and learn more about the college Computer Technology program.

Students started their projects by developing detailed application specifications for a fictitious bank called "Greenwell Bank." Students interviewed their client to see what "the bank" needed for app functionality. Once the specs were approved, they went into the architecture and design phases. From there, they then sought continuous feedback from the application stakeholders as they coded the applications. The projects being presented include two home inventory apps, a construction bidding app, an HR employee review app, and a project management system. All of this occurred within a nine-week timeframe.

While the CTEC 227 presentations are notable for the large public audience expected to attend, many programs at Clark—including Engineering, Computer Science, Mechatronics, and Studio Art—include public presentations to industry experts as part of their final or capstone projects.

Clark College is located at 1933 Fort Vancouver Way, close to downtown Vancouver. Parking is free. Maps and directions are available online.

Individuals who need accommodation due to a disability in order to fully participate in this event should contact Clark College's Disability Support Services Office at 360-992-2314 or 360-991-0901 (VP), or visit Penguin Union Building room 013

as soon as possible.

Exceptional Faculty Award spotlight: The technophile with human feeling

Chris Martin has gathered the students from his Web Video Production class in the hallway outside their classroom to demonstrate how to set up an interview shot. One student—a burly guy with a baseball cap and gray beard—has affably agreed to stand in front of the camera as the "interviewee."

"Now let's think about camera height, because you can change

things a lot depending on the angle you shoot your subject at," Martin says, adjusting the camera's tripod. "Do we want to set it lower and look up at him to give him that godlike angle? Because we all know Steve has a bit of a god complex—just kidding! Just kidding!"

The whole class, Steve included, cracks up, and then Martin continues, raising the tripod as he speaks. "You can do stuff like that," he says. "You can look down on them, too. But typically, we want to meet the subject at their own level, to give them that human feeling."

In many ways, that last line is an apt summation of Martin's teaching philosophy—and the secret to his popularity with students, who nominated him in droves for Clark's prestigious 2013-14 Exceptional Faculty Award.

"His patience and approach in bringing out the abilities in all his students, from the novice to the advanced, encourages respect for all," wrote one nominator. "His emotional integrity allows him to act as a mentor and to also mirror the importance to students that he is also learning the ever-changing aspects of technology."

"If you don't care about who your students are or where they come from or what they actually know—and they know a lot—then you can't help them," says Martin, who teaches both Computer Technology and Computer Graphics Technology classes as an adjunct at Clark, as well as general business courses at Warner Pacific College. "What I like about teaching at Clark is you really get to know the students. When they go through hard times, you know about it."

Martin also gets strong praise for his real-life experience as

a web designer and videographer. He has spent more than eight years running his own multimedia studio, creating videos and web content for businesses, nonprofits, and artists. He also produces a regular online documentary video series called *Innovators of Vancouver* that showcases leaders in Southwest Washington.

Martin, who holds a bachelor's degree in Media Arts and Animation from the Art Institute of Portland and a master's degree in Management and Organizational Leadership from Warner Pacific, regularly shares stories from his professional career to illustrate class material. A self-described "big experimenter," he often tries out new tools and methods in his teaching—including Twitter, which Martin has used to create online discussions about class material among his students.

"It's just a way of being accessible," Martins says. "I think it helps students feel connected to me a little more."

Or, to put it another way: It's Martin's way of giving his students that "human feeling" in the digital age.

Learn more about the other 2013-14 Exceptional Faculty Award recipients.

Photos: Clark College/Jenny Shadley

Trees and Technology

President Bob Knight receives Clark's Tree Campus USA award from Ben Thompson of the Washington Department of Natural Resources.

On April 9, Clark College celebrated both the natural and digital worlds at its annual Arbor Day event, as it added two new trees to the campus's beautiful arboretum and unveiled a new, student-designed website that uses digital technology to catalog that arboretum. The new online map allows visitors to instantly access descriptions of most trees on campus through their mobile devices.

"This website is a great testament to the value of service learning here at Clark," said Computer Technology Department Chair Robert Hughes at the ceremony, which took place under sunny skies just south of the Chimes Tower. "It showcases the talent of our students, the value of our instruction, and a great part of Clark's visual landscape."

The mobile-friendly online map is the product of work done by students in instructor Gus Torres's spring 2013 Web Design II class. The students worked with the college's Campus Tree Advisory Committee to identify trees in the campus's extensive arboretum, which includes such notable trees as a six-decade-old Scarlet Oak and 100 Shirofugen blossoming cherry trees donated to the campus by Japanese businessman John Kageyama in 1990. Students then GPS-tagged each listed tree and added it to the map with information about its genus and species.

Additional students contributed to the project in subsequent quarters. Hughes was one of the faculty members who helped support the project, along with Torres, Computer Graphics Technology professor Kristl Plinz, and Computer Technology instructor Bruce Elgort.

The online map documents Clark's extensive arboretum.

The event also featured the official bestowing on Clark of Tree Campus USA designation by the Arbor Day Foundation for the fourth year in a row. Tree Campus USA colleges must meet rigorous standards in five separate areas to earn this designation. The award was presented by a Washington State Department of Natural Resources Urban Forestry Specialist Ben Thompson and received by Clark College President Robert K. Knight.

"It's very exciting that Clark College has such enthusiasm for urban forestry," said Thompson, who noted that Clark was helping Vancouver earn a "trifecta" by being a Tree City USA with both a Tree Line USA and a Tree Campus USA. He also noted that Clark's arboretum might benefit students in unsuspected ways.

"I don't think it's a coincidence that so many colleges are located on beautiful campuses filled with trees," he said. "It puts us at ease, at rest. It makes us ready for learning."

Clark College Bob Knight agreed. "If our students feel

comfortable and our faculty feel comfortable, then it opens up their minds and creativity more," he said, adding that the new arboretum map was a perfect example of that. "It's exactly what we want to encourage here at Clark College."

Children from Clark's Child & Family Studies program get help on their tree-themed scavenger hunt from, *left to right*, Dean of STEM Dr. Peter Williams, President Bob Knight, and Campus Tree Committee members Tim Carper and Melissa Favara.

Other speakers at the event included Dean of STEM Dr. Peter Williams and Zahid Chaudry, GIS Program Manager of the U.S. Forest Service Region 6. Additionally, two trees were added to the campus arboretum: an Eastern Hemlock and an Eastern White Pine. These are the official state trees of Pennsylvania and Maine, respectively, and are part of an effort by the college to include all 50 state trees in the campus arboretum; with these two additions, the arboretum contains 39 state trees.

Also present were two classrooms of children from Clark's Child & Family Studies program, who participated in a tree-themed scavenger hunt and received "seed bombs" filled with seeds of indigenous plants.

Trees and Technology

The new mobile-friendly arboretum map pinpoints and identifies trees all over Clark's main campus.

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map with information about its genus and species. Additional students contributed to the project in subsequent quarters, with faculty from both the Computer Graphics Technology and the Computer Technology departments providing guidance and support.

"I look forward to the sight of Clark College denizens and those in the community at large walking across campus consulting their phones and tablets to find the answer to 'What kind of tree is this?'" said Computer Technology Department Head Robert Hughes, who also teaches in the Computer Graphics Technology program. "Project-based client work has been a component of our graphics and web-related curriculum for a long time. These types of experiences are helpful as our students move into the workforce."

Hughes was one of the faculty members who helped support the project, along with Torres, Computer Graphics Technology professor Kristl Plinz, and Computer Technology instructor Bruce Elgort.

Members of Facilities Services proudly display Clark College's Tree Campus USA award during the college's 2013 Arbor Day event.

In keeping with this year's Arbor Day theme, "Trees and

Technology," the event's keynote speech will be presented by Zahid Chaudry, GIS Program Manager of the U.S. Forest Service Region 6. Additionally, two trees are being added to the campus arboretum: an Eastern Hemlock and an Eastern White Pine. These are the official state trees of Pennsylvania and Maine, respectively, and are part of an effort by the college to include all 50 state trees in the campus arboretum; with these two additions, the arboretum will contain 39 state trees.

The event, which will take place at 11:00 a.m. just south of Cannell Library, will also feature the official bestowing on Clark of Tree Campus USA designation by the Arbor Day Foundation for the fourth year in a row. Tree Campus USA colleges must meet rigorous standards in five separate areas to earn this designation. The award will be presented by a staff member from the Washington State Department of Natural Resources and received by Clark College President Robert K. Knight.

The event is free and open to the public.

Photo: Clark College/Jenny Shadley

Everyone's Involved

Phi Theta Kappa advisor Melissa Sinclair, *far right in yellow shirt*, gives students information about the program.

Gaiser Student Center was bustling with activity on October 2 as students attended the college's first-ever Involvement Fair. In previous years, the college has hosted a quarterly Student Club Fair, but this year the event expanded to include tables for not just clubs, but also departments and programs like Financial Aid, CollegeFish.org, and the Bookstore.

"We wanted to expand on the engagement opportunities we were highlighting for students," explained Director of Student Life Sarah Gruhler.

Brandon Nimmo

Clark student Brandon Nimmo was manning a table representing the college's Penguin Help Desk, a free service staffed by Computer Support Specialist students that provides computer assistance and repair to students, faculty, and anyone in the community. Nimmo said he'd received a lot of visitors at his table interested in the Help Desk's services—though, he added, they might have to wait a bit to access them. "We have a lot of computers there waiting to be fixed right now," he said. "We stay very busy."

Nimmo wasn't interested in signing up for any clubs himself. "I honestly don't have time," he said. The Air Force veteran is currently juggling working 30-to-40 hours per week at the Veterans Administration with a full-time class load and helping to care for his daughter, 2, and stepdaughter, 13.

Chess fans get a game in at the Chess Club table.

This is the challenge facing many Clark students—they're too busy balancing jobs and family and homework to participate in extracurricular activities. But, Gruhler said, it can be helpful to their long-term success if they do.

"In Student Life we emphasize out-of-class learning opportunities," she said. "Clubs are a great way for students to pursue their interests and try new things while gaining experience, learning new skills and connecting with other students. Future schools and employers are not just interested in your degree, but in all the other experiences that set students apart as individuals. Clubs help students connect, network and ultimately provide support to help them achieve their goals."

Saudi Students Club members Majed Alhumaidani and Ahmed Biladi share dates and culture with their fellow students.

For first-year student Ahmed Biladi, a student club is also a way to promote understanding about his culture. Biladi, 18, is one of a growing number of Clark international students from Saudi Arabia—in fact, fall 2013 marks the first quarter that Saudi Arabia is the most common country of origin for Clark international students, the result of new partnerships between Clark College International Programs and educational organizations in the Middle East including the Saudi Arabian Cultural Mission.

When Biladi first came to the United States, he encountered some disheartening preconceptions about his homeland. "Some of the most bizarre questions I've gotten have been: 'Do you guys still ride camels? Is the country covered in sand? Do you still live in tents?'" he said with a laugh. "There's a lot of misinformation about Saudis, so we decided to start a club to share our culture with the Clark community."

The newly formed Saudi Students Club hopes to combat myths and promote understanding between American and Saudi cultures. "There's an ignorance of culture on both ends that leads to a lack of communication," Biladi said, offering a plate of imported dates to passersby.

According to the Office of Student Life, more than 400 people attended the Involvement Fair.

A total of 59 clubs, programs, services, and departments had tables at the Involvement Fair, which was attended by more than 400 people.

Photos: Jenny Shadley/Clark College