

Candidate for President

Helena Mentis
University of Maryland Baltimore County, MD, USA

BIOGRAPHY

Academic Background:

Ph.D., The Pennsylvania State University, 2010, Information Sciences and Technology.

Professional Experience:

Assistant Professor, University of Maryland Baltimore County, MD, 2013 – Present;
Research Fellow, Harvard Medical School, Boston, MA, 2012 – 2013;
Postdoctoral Fellow, Microsoft Research Cambridge, UK, 2010 – 2012.

Professional Interest:

Health Informatics; Collaboration/Communication; Gestural Interaction; Bodily Movement.

ACM Activities:

Executive Vice-President, SIGCHI, 2015 – Present;
Program Committee Associate Chair, CHI 2018 Conference, 2017;
LBW Co-Chair, CHI 2016 Conference, 2014 – 2016;
Best Paper Committee Co-chair, CSCW 2014 Conference, 2013 – 2014.

STATEMENT

For the past three years as SIGCHI Vice-President, I have championed strategic initiatives such as the modernization of our conference processes and infrastructure, membership development programs, and better membership communication. For the next three years as President, I want to prioritize making the SIGCHI body of work and events available for all. This means ensuring HCI researchers and practitioners from around the world can partake in our conferences and gain access to our publications, taking definitive steps to making our family of conferences and PC meetings accessible, and promote and disseminate SIGCHI member work. Second, I want to enhance the HCI community's ability to sustainably grow by addressing reviewing and volunteering through policy and technology as well as well-defined mentorship. Finally, I fully support greater transparency of the SIGCHI EC and conference leadership. We have already taken steps in this regard, but we can do better. SIGCHI is run by community volunteers and it should never be a mystery how decisions are made or how one can become more involved. Our ability to sustainably grow and have greater influence relies on an organization that works together and takes advantage of all of our talents and passion.

Candidate for Executive Vice-President

Cliff Lampe
University of Michigan, Ann Arbor, MI, USA

BIOGRAPHY

Academic Background:

Ph.D., University of Michigan, 2006, Information.

Professional Experience:

Associate Professor, University of Michigan, Ann Arbor, MI, 2014 – 2018;

Assistant Professor, University of Michigan, Ann Arbor, MI, 2011 – 2014;

Assistant Professor, Michigan State University, Lansing, MI, 2006 – 2011.

Professional Interest:

Social Media; Civic Technology; Social Computing; Open Source; Recommender Systems.

ACM Activities:

Vice-President for Publications, 2015 – 2018;

Steering Committee Chair, CSCW, 2016 – 2018;

Technical Program Chair, CHI Conference, 2015 – 2017;

Program Chair, CSCW Community, 2012 – 2013.

STATEMENT

I have strong belief in the ability of HCI research and practice to make a positive difference in the world. In my last three years of membership on the SIGCHI Executive Committee, I have attempted to support the HCI community by clarifying publication policies, creating more options for publishing high-quality work, and focusing on rigorous HCI work across our conferences. For the next three years, I want to continue the work of the EC to focus on accessibility and diversity, but also have two specific initiatives I want to lead. First, our decision making is often hindered by lack of data coming back from the conferences. I want to revise our data gathering methods to prioritize data-driven decision making, and to investigate options for open data. Second, I want to study ways to conserve our volunteer resources. Our community has wonderfully devoted volunteers, but the growth of paper submissions, conferences, and other opportunities is straining our volunteer pool. I want to devise practical programs that will respect and preserve our volunteer efforts.

Candidate for President

Dan R. Olsen, Jr.
Sparxteq, Inc., Orem, UT, USA

BIOGRAPHY

Academic Background:

Ph.D., University of Pennsylvania, 1981, Computer and Information Science.

Professional Experience:

Professor, Brigham Young University, Provo, UT, 1984 – 2015;
Director HCII, Carnegie Mellon University, Pittsburgh, PA, 1996 – 1998;
Assistant Professor, Arizona State University, Tempe, AZ, 1981 – 1984.

Professional Interest:

Interactive Educational Software; Interactive Machine Learning; User Interface Tools;
Human Robot Interaction.

ACM Activities:

Vice-President for Operations, SIGCHI, 2016 – Present;
Vice-President for Finance, SIGCHI, 2015 – 2016;
Adjunct Chair of Communities, SIGCHI, 2013 – Present;
Conference Chair, CHI, 2008 – 2009.

Awards Received:

CHI Lifetime Research Award, 2012;
ACM Fellow, 2007;
CHI Academy, 2004;
CHI Lifetime Service Award, 2002.

STATEMENT

The work we do within the SIGCHI community is critical to how ordinary people will control computational power rather than be controlled by it. Computing power continues to cause social and economic displacements. It is our community that will invent the solutions that will empower people rather than discourage them.

Our success is based on inviting and encouraging many diverse voices, pursuing and supporting intellectual excellence, a broad portfolio of conferences and strong, sound finances. These successes do not come without challenges. Diversity is our strength but we must work hard to ensure that the conversations are broad, vigorous and inclusive without becoming bitter, partisan and divisive. Our historical success within diversity must continue.

The SIGCHI community generates a vast pool of ideas. Conference attendees indicate that finding what is useful is difficult. We need to help our members find what they personally need. We need to develop better tools for our members to use the product of our collective labors.

In 2001, terror threats choked world travel and sent SIGCHI's finances sharply downward. We have recovered from that and are now financially strong. Our challenge is that we need to better reinvest those funds into member benefits.

Candidate for Executive Vice-President

Jodi Lee Forlizzi

HCI Institute, Carnegie Mellon University, Pittsburgh, PA, USA

BIOGRAPHY

Academic Background:

Ph.D., Carnegie Mellon University, 2007, Human-Computer Interaction.

Professional Experience:

Professor and Geschke Director, HCI Institute, Carnegie Mellon University, Pittsburgh, PA, 2014 – 2018;

Associate Professor, HCI Institute, Carnegie Mellon University, Pittsburgh, PA, 2007 – 2014;

Assistant Professor, HCI Institute, Carnegie Mellon University, Pittsburgh, PA, 2000 – 2007.

Professional Interest:

Design and HCI; Human robot interaction; Design for educational games;

Design for healthcare; Design and AI.

ACM Activities:

CHI Academy, SIGCHI, 2014 – Present;

CHI 2015 Design Papers SC, SIGCHI, 2014 – 2015;

CHI 2012 Design Papers SC, SIGCHI, 2011 – 2012;

CHI 2009 Design Papers SC, SIGCHI, 2008 – 2009.

Membership and Offices in Related Organizations:

HRI Design Papers Committee Co-Chair, ACM HRI Conference, 2015 – 2016;

HRI Papers Committee Co-Chair, ACM CHI Conference, 2012 – 2013;

CHI Student Design Competition, ACM CHI Conference, 2005 – 2006.

Awards Received:

Nomination to CHI Academy, 2014;

Walter Reed Academy State of Science Award for Rehab Robotics, 2011;

Slow Glow Design Research Award, Design and Emotion Society, 2010.

STATEMENT

In this election, I draw attention to the importance of diversity in our constituency. I am a designer within HCI, and my career is devoted to extending the boundaries of HCI and to increasing its members and approaches. In the past, I have helped to grow the Design Subcommittee at CHI (now two committees) and the Human-Robot Interaction (HRI) conference, viewed as the leading HRI conference in the world.

To continue these efforts, Dan Olsen and I will further grow and enrich human-computer interaction. I will increase support for people to attend and access our conferences and publications, particularly those from underrepresented and distant groups where travel can be costly and prohibitive. I will ensure that there are new services in place that make volunteering within the organization within everyone's reach. I will also help to find new ways to bring the diverse aspects of our community together.

HCI is more important than ever. Our discipline is responsible for designing the interface between people and technology and understanding how life will change as a result. I hope to bring energy and new ideas to this group to make our community even stronger, and to continue to uphold these responsibilities.

Candidate for Vice-President for Membership & Communications

Regina Bernhaupt
ruwido Austria gmbh, Neumarkt am Wallace, Austria
Technical University Eindhoven, Netherlands

BIOGRAPHY

Academic Background:

Ph.D., Salzburg University, 2002, Computer Science.

Professional Experience:

Full Professor, Technical University Eindhoven, Netherlands, 2017 – Present;
Director of Research, ruwido, Neumarkt, Austria, 2007 – Present.

Professional Interest:

Human-Computer Interaction; User Centered Design and Development Processes;
Evaluation Methods for User Experience and Usability; Systemic Change by Technology;
Industrial Design.

ACM Activities:

Vice-President for Membership & Communications, SIGCHI, 2015 – 2018.

STATEMENT

The main goal of my term is to better inform people working in the HCI community about our membership benefits and to set-up and enable new benefits for members to support their career development and overall life-long learning. Based on the successful set-up of a new SIGCHI website and our social media efforts on Twitter, Facebook, and LinkedIn, my main goal is to continue and enhance all aspects of communication with our members in a transparent, timely but not overwhelming way.

Candidate for Vice-President for Finance

Anirudha Joshi
IIT Bombay, Mumbai, India

BIOGRAPHY

Academic Background:

Ph.D., IIT Bombay, 2011, Integrating HCI with software engineering.

Professional Experience:

Professor, IIT Bombay, Mumbai, India, 2011 – Present;
Associate Professor, IIT Bombay, Mumbai, India, 2006 – 2011;
Assistant Professor, IIT Bombay, Mumbai, India, 1998 – 2006.

Professional Interest:

HCI for development; Text input in Indian languages; Interaction design for emergent users; Healthcare information technology in developing countries; Integrating HCI in software engineering.

ACM Activities:

Vice-President for Finance, ACM SIGCHI, 2016 – Present;
India Liaison in the ACM SIGCHI Development Committee, ACM SIGCHI EC, 2015 – Present.

Membership and Offices in Related Organizations:

India Representative, IFIP TC13, 2007 – Present;
Co-director, HCI Professionals Association of India, 2013 – Present;
Treasurer, IFIP TC13, 2012 – 2015.

Awards Received:

Interaction Design for International Development (IDID) Award, 2017;
Best Case Study Award CHI 2017;
Excellence in Teaching Award, IIT Bombay, 2016;
IFIP Outstanding Service Award, 2015.

STATEMENT

I've been the India Liaison on the SIGCHI Asian Development Committee since 2015, and was appointed Vice-President for Finance in 2016. I was the SDC co-chair in CHI 2014 and 2015. I will be a LBW co-chair in CHI 2019. Beyond SIGCHI, I am active in the HCI community in India, and a member of the IFIP TC13, where I served as Treasurer for three years. I have been the general co-chair of INTERACT 2017 and of several India HCI conferences.

I am honored to be nominated to serve as Vice-President for Finance. Ever since my first CHI in 2004, I was impressed with the focus of the SIGCHI community on inclusion. But only after I became closely associated with the EC did I see the efforts and care the members of the community take to give SIGCHI a wide reach. Thanks to the thriving SIGCHI community, our finances are healthy. This, I believe, is the opportunity to take SIGCHI further, especially to reach out and grow the community in developing countries, where HCI folks have major roles to play and milestones to achieve. If elected, I am committed to supporting SIGCHI in its outreach.

Candidate for Vice-President for Finance

Andy Wilson
Microsoft Research, Redmond, WA, USA

BIOGRAPHY

Academic Background:

Ph.D., MIT, 2000, Computer Science.

Professional Experience:

Research Manager and Principal Researcher, Microsoft Research, Redmond, WA, 2011 – Present;
Senior Researcher, Microsoft Research, Redmond, WA, 2008 – 2011;
Researcher, Microsoft Research, Redmond, WA, 2001 – 2008.

Professional Interest:

Augmented and Virtual Reality; Computer Vision; Tangible Interfaces; Gesture Recognition;
Input and Interaction Techniques.

ACM Activities:

Program Chair, UIST, 2018 – Present;
Steering Committee Chair, ITS/ISS, 2014 – 2016;
General Chair, SUI, 2014;
General Chair, UIST, 2009.

Membership and Offices in Related Organizations:

General Chair, IEEE Tabletop, 2007.

Awards Received:

CHI Academy, 2018;
ICMI Lasting Impact Award, 2015.

STATEMENT

I am honored to be nominated to serve as SIGCHI's Vice-President of Finance. I have contributed to the CHI community in various capacities over the last twenty years, yet this is my first opportunity to serve on the Executive Committee. While I have had few official capacities related to finance, I have chaired three conferences. In doing so, my philosophy as general chair is that the best way to understand and troubleshoot the running of a conference is to master its finances, essentially "owning" every line of the conference's balance sheet. All three conferences were successful and met their budgets.

SIGCHI finance requires a broader perspective than that of a single conference, however. Fortunately, the efforts of myself and many other similarly diligent general chairs have ensured that SIGCHI finances are in good shape. Thus, we can afford to invest in the organization's future in a strategic way. The SIGCHI Development Fund is a prime example of an ongoing effort to reinvest money to foster greater diversity across a variety of subfields. As Vice-President of Finance, I would seek to amplify these existing efforts and find new ways to capitalize on our long-term success.

Candidate for Vice-President At Large

Susan M. Dray
Dray & Associates, Inc., Minneapolis, MN, USA

BIOGRAPHY

Academic Background:

Ph.D., UCLA, 1980, Physiological Psychology.

Professional Experience:

President, Dray & Associates, Inc., Minneapolis, MN, 1993 – Present;
Fulbright Scholar, Universidad Tecnologica de Panama, Panama City, Panama, 2014;
Director, Human Factors, American Express Financial Advisors, Minneapolis, MN, 1988 – 1993.

Professional Interest:

Human-Computer Interaction (HCI); HCI Across Borders (also known as HCI for Development HCI4D); HCI Education - especially for Africa and Latin America; Bridging divide between Academics(SIGCHI) & Practitioners (UXPA); Diversity within HCI and Science more generally.

ACM Activities:

Vice-President At Large, SIGCHI, 2015 – Present;
Co-editor, Evaluation and Usability Forum, Interactions Magazine, SIGCHI, 1994 – Present;
Member, Distinguished Member Committee, ACM, 2014 – Present;
Co-founder of SIGCHI, 1982.

Membership and Offices in Related Organizations:

Member, Board of Directors, Fulbright Association, Minnesota Chapter, 2015 – Present;
Director of Publications, User Experience Professionals Association (UXPA), 2007 – 2013;
Chair of Computing Systems Technical Group, Human Factors Society (now Human Factors and Ergonomics Society), 1981 – 1984.

Awards Received:

ACM Fellow, 2017;
Lifetime Achievement Award, UXPA, 2016;
Lifetime Achievement in Practice, SIGCHI, 2015;
Elected to CHI Academy, 2014.

STATEMENT

HCI Across Borders (formerly HCI4D): As our profession grows, we need continued focus on helping new HCI/UX communities to develop and thrive. We also need to learn from them in order to extend the profession in culturally-appropriate ways.

Education: Growing demand for UX in industry without clear accepted educational standards leads to confusion and poor performance, and ultimately degrades UX in the eyes of management. We must identify what skills and knowledge are critical and address how to teach these effectively.

Addressing gaps between academics and practitioners: We need to connect academic outputs with industry needs and make it easier for practitioners to adopt critical research. This will make SIGCHI and the wider profession stronger. Making the value of research more evident to industry could also increase funding for research.

Collaboration with practitioner groups: To address the gap, we must also work together with practitioner organizations, such as UXPA, etc. To address the fact that not all practitioners see SIGCHI as relevant to them, we should link research and practice more explicitly. We are stronger when we work together as equals, recognizing each other's value and strengths.

Inclusion: Extending outreach to everyone will help the profession grow & flourish.

Candidate for Vice-President At Large

Susan R. Fussell
Cornell University, Ithaca, NY, USA

BIOGRAPHY

Academic Background:

Ph.D., Columbia University, 1990, Psychology.

Professional Experience:

Professor, Cornell University, Ithaca, NY, 2008 – Present;
Program Director, National Science Foundation, Arlington, VA, 2010 – 2012;
Associate Research Professor, Carnegie Mellon University, Pittsburgh, PA, 1997 – 2008.

Professional Interest:

Computer-Supported Collaborative Work; Computer-Mediated Communication; Human-Robot Interaction; Sustainable Technology; Intercultural and multilingual communication tools.

ACM Activities:

Adjunct Chair for Career Development, SIGCHI Executive Committee, 2015 – Present;
Telepresence Co-Chair, CHI 2018 and CSCW 2018, SIGCHI, 2017 – Present;
Conference Co-Chair, CHI 2017, SIGCHI, 2016 – 2017;
Conference Co-Chair, CSW 2014, SIGCHI, 2013 – 2014.

Awards Received:

Elected to the CHI Academy, 2016.

STATEMENT

As a rapidly growing global community, SIGCHI faces many challenges of diversity, inclusiveness, accessibility, environmental sustainability and transparency. As a Vice-President At Large, I will work towards solutions to these challenges.

Travel is problematic for many SIGCHI members due to mobility, visa, and sustainability concerns. To insure inclusiveness, accessibility and sustainability, I will continue exploring new ways for members to participate in conferences without traveling, including telepresence robots and live streaming.

Our membership also spans many different language communities and our field benefits when there is smooth exchange of ideas among these communities. Since CHI 2015, I've been exploring ways to make our conferences more accessible to a multilingual membership, for example by providing attendees with machine translation tools.

Many of our members seek guidance on how to get involved in SIGCHI volunteering. For the past three years, I have been serving as Adjunct Chair for Career Development to help realize our vision of becoming a more transparent organization. I've also been developing new ways we can mentor junior researchers, for example through the CHI Career Development Symposium.

As a Vice-President At Large, I will focus on addressing these challenges and broadening our community.

Candidate for Vice-President At Large

Siân Lindley
Microsoft Research, Cambridge, United Kingdom

BIOGRAPHY

Academic Background:

Ph.D., University of York, 2007, Psychology.

Professional Experience:

Senior Researcher, Microsoft Research, Cambridge, UK, 2017 – Present;
Researcher, Microsoft Research, Cambridge, UK, 2010 – 2017;
Post-Doc, Microsoft Research, Cambridge, UK, 2009 – 2010.

Professional Interest:

Computer-supported cooperative work; Virtual possessions; Community data; Time; Memory.

ACM Activities:

Vice-President At Large, SIGCHI, 2016 – Present;
CHI PC: UX & Usability subcommittee co-chair, SIGCHI, 2016 – 2017;
CHI Workshops co-chair, SIGCHI, 2016;
DIS PC: Experience subcommittee co-chair, SIGCHI, 2014 – 2016.

Membership and Offices in Related Organizations:

Editorial board member, International Journal of Human-Computer Studies, 2010 – 2013;
BCS-HCI Workshops co-chair, British Human-Computer Interaction conference, 2011;
BCS-HCI Student volunteers co-chair, British Human-Computer Interaction conference, 2009.

Awards Received:

DIS Best Paper Award, 2016;
CHI Honorable Mention Award, 2015;
DIS Honorable Mention Award, 2014;
Silver: International Design Excellence Awards Research category, 2011.

STATEMENT

It was a pleasure to be appointed as SIGCHI Vice-President At Large in August 2016. Since then, it has been my goal to serve the SIGCHI community by increasing public awareness of HCI. This is important to our community and field: it helps us attract new members and draw people into a career in HCI, and it increases our impact through wider dissemination of our work. I have worked to facilitate awareness of HCI by finding ways to help our members share their work (I organised communication and media skills sessions for CHI 2018, which will be repeated at CHI 2019), by running public outreach events (I'm currently planning one for CHI 2019), and by

exploring what it might mean for SIGCHI to have a PR agency working with them, to publicize work presented at SIGCHI-sponsored conferences. It would be my aim, if elected again, to continue and expand this effort. I would continue to support our members in developing outreach skills and to offer platforms via which they can disseminate their work, and I would focus in particular on how we might do this with a global outlook.

Candidate for Vice-President At Large

Zhengjie Liu
Dalian Maritime University, China

BIOGRAPHY

Academic Background:

Master of Engineering, Xian Jiaotong University, China, 1988, Computer Science.

Professional Experience:

Lecturer, Assoc. Professor, Professor, Dalian Maritime University, Dalian, China, 1989 – Present;
Teaching Assistant, Lecturer, Xian Jiaotong University, Xi'an, China, 1982 – 1988;
Director, Dalian Software Industry Incubator, Dalian, China, January 2000 – June 2000.

Professional Interest:

Human-computer interaction; User experience; Interaction design; User-centered design; HCI4D.

ACM Activities:

Chair, SIGCHI Gary Marsden Student Development Fund Committee, 2015 – Present;
Member, SIGCHI Asia Development Committee, 2015 – Present;
Adjunct Chair for Developing Worlds, SIGCHI, 2009 – 2015;
Co-founder and Co-chair, SIGCHI China, 2004 – 2010.

Membership and Offices in Related Organizations:

Chinese Representative and Expert Member, IFIP TC.13 Committee on HCI, 1999 – Present;
Editorial board member, Journal of Interacting with Computers, 2009 – Present;
Member, ISO/TC159/SC1/WG4 and WG11, ISO/TC159/SC4/WG6 and WG28, 2002 – Present.

Awards Received:

ACM SIGCHI Lifetime Service Award, 2017;
IFIP TC13 Pioneers Award, 2013;
Distinguished Achievement Award by Dalian Maritime University, 2007;
Excellent Teaching Award by Xian Jiaotong University, 1986.

STATEMENT

Since 1989, I have contributed and witnessed the growth of HCI especially UX practice in industry in China from its inception, experiencing twists and turns. Understanding the hardships, my passion has been to help HCI communities in the developing world to mature.

In the past years, I have been working on these endeavors in realizing SIGCHI's vision of an inclusive global community:

- As SIGCHI Adjunct Chair for Developing Worlds 2009-2015, I coordinated SIGCHI's efforts in Asia, Latin America and Africa to connect with local communities and help them to mature. These efforts led many local communities to form.
- As chair of SIGCHI Gary Marsden Student Development Fund 2015-2018, I led SIGCHI's initiative to help the students from developing countries to attend HCI events.
- As a member of SIGCHI Asia Development Committee 2015-2018, I worked on connecting SIGCHI with Asian communities.

If elected Vice-President At Large, based on SIGCHI's cumulated efforts and what I've learned from past experiences, I would like to further help SIGCHI to mature HCI in the vast developing world by identifying the concrete needs from the local communities and coordinating SIGCHI's resources to meet their needs.

Candidate for Vice-President At Large

Eunice Sari
UX Indonesia, Jakarta, Indonesia

BIOGRAPHY

Academic Background:

Doctoral Degree, Edith Cowan University, 2012, Education Technology.

Professional Experience:

CEO and Co-Founder, UX Indonesia, Jakarta, Indonesia, 2002 – Present;
Lecturer, Western Australia University, Perth, Australia, 2013 – 2016;
Instructional Designer, Australian Laboratory Services, Perth, Australia, 2012 – 2013.

Professional Interest:

Interaction and Experience Design; Design Sprint (Design Thinking); Online Community;
HCI/UX Methods and Theories; Social Computing.

ACM Activities:

Asian Development Committee (SEA Liaison), ACM SIGCHI, 2015 – Present;
Asian CHI Symposium Co-Chair (Collocated with CHI Conference), ACM SIGCHI, 2015 – Present;
Indonesia ACM SIGCHI Chapter Chair, ACM SIGCHI, 2014 – 2017;
CHIuXiD Conference Co-Chair, ACM SIGCHI, 2014 – 2017.

Membership and Offices in Related Organizations:

Western Australia Representative, CHISIG, 2014 – Present;
General Supervisor, Indonesian Digital Interaction Association, 2016 – Present;
Advisor, Indonesian Cloud Computing Association, 2017 – Present.

Awards Received:

DFAT Australia - Asean Indonesian Project Awards, 2016;
ACM SIGCHI - Asian HCI Hero Award (CHI 2015), 2015;
WA Univ - Centre for Education Future Scholarship Award, 2015;
WAIER Postgraduate Award, 2013.

STATEMENT

Growing awareness of HCI and UX has been in my blood since I started my career in these fields 18 years ago. Having pioneered and led several forward-thinking and innovative projects to effect changes in life in various vertical industries and communities across the world, I envision to expand what I have been doing if I were elected as ACM SIGCHI VP-At-Large.

Co-founding and leading the Indonesia ACM SIGCHI Chapter since 2014, I also started similar initiatives in Western Australia as well as Southeast Asian countries. I initiated the births of two

ACM SIGCHI Chapters in Southeast Asia during my service as the Southeast Asian Liaison for ACM SIGCHI Asian Development Committee. I helped hundreds of startups from around world in my capacity as Google Expert in Product Design (UX and UI), where I could also introduce what ACM SIGCHI has been doing in these fields. There are plenty of opportunities that ACM SIGCHI can seize to bridge the gaps and connect academia, industries, government, private organizaions, and NGOs around the world; rural, urban, and marginalized communities through a wide range of out-of-the box outreach programs to grow HCI and UX as well as ACM SIGCHI's presence around the world.