On behalf of the organizing committee and IEEE Computer Society's Technical Committee (TC) on Security & Privacy, it is my honor and privilege to welcome you to the 36th Symposium on Security & Privacy (S&P). While changes in technology and public revelations of security breaches seem to be coming at a faster pace than ever before, the IEEE Symposium on Security & Privacy continues to be the premier forum for researchers to present and discuss the latest developments in computer security and electronic privacy that bring promise to someday being better able to make legitimate claims and guarantees about the security of computer systems and data.

For the second year, we are holding the symposium at the Fairmont in San Jose, which accommodated us so well in 2014, after so many years at the Claremont in Oakland and two years at the St. Francis in San Francisco, both of which we outgrew, due to the immense interest in our field.

In addition to the symposium, we are also holding the Security and Privacy Workshops. After two years of being organized quasi-separated from the symposium, the workshops are now organized by a subcommittee of the symposium's organizers in order to improve efficiency by merging the two organizing committees. In the process, to help streamline organization, we also reduced the workshops from two days to a single day.

My primary goals for this year's event have been to integrate the workshops back into the symposium's organization, while also taking steps to stabilize our operations at the Fairmont in order to help the organizing committee and audience feel at home, after two fairly quick moves in recent years. Additionally, after many years of paper acceptance rates around 10%, another key goal of mine has been to find a way to enable the Program Chairs to accept more papers (to an appropriate degree). This forced us to make tough decisions about how to make this happen, and we ultimately decided to reduce the length of paper presentations by five minutes each, as well as reducing some break times. I am hopeful that the increase in paper acceptances nonetheless still maintains the balance between the experience of the attendees and the needs of paper authors. Another key goal of mine was to continue to reduce the burden on our volunteer organizing committee as much as possible and leverage paid, professional support whenever it made good sense to do so. Finally, I am pleased to say that all of the symposium's paper presentations will be video-recorded this year and will be publicly posted online, at a later date, at the discretion of each presenter.

Like my general chair predecessors, I'd like to assure our longtime participants that the S&P team remains fully committed to the symposium's roots and traditions that have made it an outstanding venue to learn and grow, both as individuals and as a community. I have sought to maintain our focus on providing ample opportunity to network with peers over breakfasts, lunches (plated, when possible), and receptions. We continue to hold a registration reception on Sunday night, a poster session on Monday night along with the main reception, as well as a short-talks session on Tuesday afternoon for presenting emerging research. The annual business meeting remains on Tuesday evening and provides the larger community with an opportunity to discuss the present and future of the symposium. After the symposium paper presentations finish on Wednesday, the symposium concludes with a panel on the 2015 Federal Cybersecurity R&D Strategic Plan, organized jointly with the Federal Senior Steering Group for U.S. Cybersecurity R&D. A "bridging" reception and some "Birds of a Feather" sessions then take place on Wednesday evening, with the workshops beginning the following morning.

Donation support is an extremely important financial element of S&P, enabling the symposium to run as well as to enable student participation with travel grants. We are very grateful to all who donated to the conference. As of this writing, our Platinum donors include Cisco and the National Science Foundation.
Our Gold donors include the Army Research Office (ARO), Goldman Sachs, Google, IBM Research, and Qualcomm. Our Silver donors include CERT/SEI at Carnegie Mellon, Microsoft Research, NITRD, Oxford University Press, Symantec, TowerSec, Verisign, and VMware. Our Bronze donors include GrammaTech, Intelligent Automation Inc., the National Security Agency, and Springer. We thank IEEE Security & Privacy magazine for an in-kind donation.

As in past years, this symposium comes together only because many people volunteer a huge amount of their valuable time. Our planning for 2015 began well over a year ago and built on the immense amount of work done in our first year at the Fairmont, in 2014. The commitment of those who help put these events together is a real gift to our community.

As the technical program constitutes the heart of the symposium, let me express deep thanks to the program committee, led by program co-chairs Lujo Bauer and Vitaly Shmatikov, whose partnership with the organizing committee this year truly helped make the symposium planning run incredibly smoothly. Out of a huge number of submissions, they identified an outstanding group of papers, provided useful feedback to all authors who submitted papers, and worked closely with me and the rest of the organizing committee on publications, publicity, awards, scheduling, presentation details, and more.

My organizing committee has been tremendous—I am honored and privileged to work with so many incredibly talented and hardworking individuals. Thank you all:

- Michael Locasto, Vice General Chair and Registration Chair, provided invaluable feedback during the entire planning process.
- Mark Gondree and Gabriela Ciocarlie, Treasurers, went way above and beyond the call of duty to monitor and streamline our finances specifically but also our operations more generally. Their detail work on finances was superlative.
- Cynthia Irvine as Workshops Chair, with close support from Zachary Peterson, Gabriela Ciocarlie, and Ashley Podhradsky, did a superb job in solidifying the process for selecting and running the S&P workshops.
- My sincere thanks to Cynthia, Zachary, Gabriela, Ashley, and the inaugural workshop steering committee (Terry Benzel, Rob Cunningham, Sven Dietrich, and Deb Frincke) for their partnership and dedicated work on re-integrating the workshops into the symposium operation.
- Jason Li, Donations Chair, who, with his absolutely outstanding, dedicated efforts with donors, substantially helped the social aspects of S&P and the ability of students to attend the symposium and workshops.
- Alvaro Cárdenas and Cliff Wang, Student Travel Grants Co-Chairs, expertly managed the expanded student travel grants and the ever-increasing volume of student applications.
- Kevin Butler, Sophie Engle, and Ashley Podhradsky performed superb work as publication chairs and once again ensured that the final papers made it into print and online. Additionally, they also took on process of producing award plaques, and handling not just copyright details but also video recording details.
- Sophie Engle, Poster Chair, also organized a highly engaging poster session of ongoing work and provided an incredibly useful tool that enabled the paper processing workflow to be streamlined significantly for both authors and organizers.
- Anuja Sonalker and Zachary Peterson, Publicity Chairs, professionally and engagingly provided excellent press releases, social media, and media relations.
- Sean Whalen, Web Chair, built and maintained the very elegant S&P website, which he previously had updated to a fresh look, a modern web framework, full integration with new media, and as of this year, careful integration with the workshops as well.
- Yvonne Lopez and Cara Candler from ExecutivEvents provided professional registration and local arrangements support for S&P. More than that, they truly helped us every step of the way. As the only real professionals on the organizing committee, they helped the rest of us make sure we didn't miss a beat. We couldn't do S&P without them. ExecutivEvents, through Yvonne and Cara, ensure S&P's continuity and efficiency.
Together, S&P and the workshops provide access to four days of world-class research and discussions.

I thank the Technical Committee on Security and Privacy, especially Chair Patrick McDaniel, Vice Chair Ulf Lindqvist, and Treasurer Yong Guan. The TC is the official sponsor of S&P and assures its long-term viability with stable leadership, financial support, and support in communications with the IEEE and IEEE Computer Society.

I also thank Paula Anderson, Lynne Harris, and the staff at IEEE, the IEEE Computer Society, and the IEEE Computer Society's Conference Publishing Services for all their assistance with the planning and production of this symposium and its proceedings. We appreciate your interest and support in our symposium.

Finally, I thank Greg Shannon, 2014 General Chair, whose patient teachings with me in 2014 prepared me as well as I could ever imagine to be 2015 General Chair. In particular, Greg helped me to understand how to think about making S&P the best possible experience for attendees, including those simply in the audience as well as paper presenters, poster presenters, and donors. Greg also provided an ear and voice of wisdom over the past year whenever I asked for it.

I sincerely hope that all attendees enjoy the papers, presentations, posters, and the knowledge and camaraderie that I hope you gain by meeting and mingling with the many individuals present in your week at "the Oakland conference," our 36th IEEE Symposium on Security & Privacy.

**General Chair**

Sean Peisert  
UC Davis and Lawrence Berkeley National Laboratory