



BOARD CANDIDATE PROFILES |

PROFILES OF CANDIDATES FOR THE EDFAS BOARD OF DIRECTORS

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The EDFAS Board of Directors, during its April meeting, unanimously approved three new board members with terms beginning in 2018:

Finance Officer • 2018-2020

- Martin Keim

Members-At-Large • 2018-2021

- Renee Parente
- C.T. (Tom) Schamp

Congratulations to these new board members.



Martin Keim joined the Silicon Test Solutions Group of Mentor Graphics in 2001, now a Siemens Business, where he is currently engineering director of the Memory Built-In Self-Test and Silicon Insight team. He was an editor of the sixth edition of the *Microelectronics*

Failure Analysis Desk Reference, responsible for the test and diagnosis chapters. He is currently a member of the EDFA Editorial Board and served on the EDFAS Board of Directors from 2015 to 2017. For several years, Keim volunteered on the International Symposium for Testing and Failure Analysis (ISTFA) organizing committee, serving as General Chair in 2016. He holds several national patents and is author of many technical publications. He received a doctorate in informatics from the Albert-Ludwigs University in Germany.

Vision Statement

“My vision for EDFAS is for it to be globally the number one source of information and education for every stage of a failure analyst’s career. The ISTFA event grew steadily over the past years in important metrics, such as the number of attendees and paper submissions, and the size of the exposition. Driven by this premier symposium, EDFAS is doing well. This success does not hide the fact that ISTFA and EDFAS are aging. For the continued

relevance of the symposium and the society as a whole, EDFAS must find a way to generate and deliver value to the society’s members. EDFAS also must find a way to educate and mentor new engineers and become an important part in their journey as failure analysis leaders. In doing so, EDFAS must fully become an international society.

The majority of young engineers who can benefit from what the society has to offer are no longer confined within the boundaries of the U.S., but are in many international locations. This is especially true for the FA community in Asia. ISTFA has already recognized this need and begun programs to attract younger engineers by reaching out to universities. In order to turn these programs into a successful movement, EDFAS has to support the event in reaching out to this next generation at home and abroad. Only together can we ensure that ISTFA and EDFAS remain the most relevant resources for FA engineers in the world.

During my tenure on the EDFAS Board of Directors, I am looking forward to developing such sustained, global outreach programs for all stages of a failure analyst’s career, from the young engineers at the beginning of their careers to the most senior FA leaders.”



Renee S. Parente has been affiliated with AMD since 1995. She is currently a business operations manager in the Foundry Technology Organization in Austin, Texas, where she plays a dual role as a business operations leader and organizational

development leader. She is responsible for capital asset management, financial forecasts, R&D organization development management, and employee engagement activities.

Parente is a strong believer in building a community through industry involvement and volunteerism. She is returning co-chair for the ISTFA panel discussion this year. In past years, she served on the ISTFA organizing

committee assisting the panel chair, attendee committee, and microscopy review committee. Parente also hosted multiple EDFAS Lonestar Chapter meetings for her organization and held positions on the AMD Technology Showcase organizational committee. She is vice chair of the AMD Austin Community Affairs Council and a member of the organization committee for AMD's Innovation Showcase, Building Leaders Initiative, Lean Six Sigma Steering Committee, and Leadership Experience.

Parente has 20 years of semiconductor process characterization and device analysis laboratory experience. Most recently, she was the AMD Austin Device Analysis lab's site lead and Physical Failure Analysis manager responsible for lab safety, PFA tools, and technique development. Prior to roles in management, she was a member of the technical staff and worked as an individual contributor in various physical analysis labs within AMD and its Motorola Alliance. Parente also was her company's corporate representative on the SEMATECH ICFAAC Council (Integrated Circuit Failure Analysis Council) and served on the PIFAC Council (Package and Interconnect Failure Analysis). She received her bachelor's degree in biochemistry from Rutgers University in 1994.

Vision Statement

"I would love to see more failure analysis engineers participate in EDFAS. The FA community is relatively small and we must all take ownership and do our part to improve it. My personal goals are to make EDFAS and the ISTFA event accessible to more individuals and to increase the participation rate in the conference. EDFAS could help our members justify conference attendance by enabling their involvement with our society by volunteering on a review committee, organizational committee, or as a tutorial contributor. I believe we should strive to keep EDFAS in the forefront of the failure analysis world and increase the sessions for emerging talent. EDFAS should continue to be the society people think of first as a source of failure analysis innovation sharing, training, and networking."



Tom Schamp is principle consulting scientist at Materials Analytical Services LLC headquartered in Suwanne, Ga. His failure analysis background grew out of his engineering roles at Cerium Labs and SVTC Technologies. As the lead TEM analyst and materials scientist, he

regularly worked on troubleshooting, DOE development, and running TEM experiments.

Later, as senior product specialist at Hitachi High Technologies America, Schamp supported customers through demonstrations. Before joining Cerium, he received a B.S. in math and physics from Lynchburg College and two degrees (M.S. and Ph.D.) in materials science and engineering from the University of Virginia.

Schamp's volunteerism with ISTFA includes serving as a presenter, reviewer, and session co-chair for microscopy. With a home in Grand Prairie, Texas, he stays involved with the ASM Alamo Chapter. Schamp has also been a presenter at a local EDFAS meeting.

Vision Statement

"I see EDFAS as a strong resource not only for the semiconductor FA community, but also for those outside of it. The wide range of techniques and methodologies utilized within the FA community from SPC to microscopy to simulations are useful for general materials analysis. A tremendous strength of the EDFAS community is the openness to share techniques and new technologies.

Where I see the greatest potential is in growing engagement with students and vendors. I would like to see more student involvement at ISTFA, where students get to see real-world applications and solutions, as well as share their own solutions. I can imagine a number of ways to bring in students, such as direct marketing to colleges and universities in the ISTFA host cities, travel grants, and student awards.

My observation is that vendors—having been one myself—self-segregate from the attendees. Some of this is by necessity, such as booth setup, but some is simply human nature to remain within one's crowd. Vendors have the added complexity of being in competition with one another and needing to ensure their own trade secrets are not compromised. I would like to find ways to break down these barriers and encourage social and networking interactions between attendees and vendors. A few ideas include smaller tables in seating areas, continuing to provide wide blocks of time during ISTFA for engagement, and joint vendor-customer presentations.

Ultimately, my vision for EDFAS is to continue to be a strong resource for the community while growing the membership."

