



IEEE
Solid-State
Circuits Society™
IC Innovation



IEEE Panama
Section

2026 IEEE EDS/CASS MINI-COLLOQUIUM

SEMICONDUCTORS IN LATINAMERICA

*Exploring Innovation, Research, and Opportunities
for a Semiconductor Future in the Caribbean*



SATURDAY
OCTOBER 3, 2026



8:00 AM - 2:00 PM



UNIVERSIDAD DE PANAMA
AUDITORIO (PISO 3), FACULTAD DE
INFORMÁTICA, ELECTRÓNICA Y
COMUNICACIÓN

TECHNICAL PROGRAM

8:00 – 8:15 AM

Opening Remarks
Registration and welcome remarks

8:15 – 8:45 AM

Low Power Design for Sustainable Manufacturing in Agribusiness
Dr. Victor Grimblatt

8:45 – 9:15 AM

The Impact of Semiconductor Materials and Devices in Human Life
Dr. Edmundo A. Gutiérrez D.

9:15 – 9:45 AM

Embedded Timing: A New Scaling Layer for Compute at System Scale
Dr. Rodrigo Calderon

9:45 – 10:15 AM

Reliability Topics for Advanced Semiconductors
Dr. Fernando Guarín

10:15 – 10:45 AM

Refreshment Break

10:45 – 11:15 AM

Physical Design Automation: From Past to Future
Dr. Ricardo Reis

11:15 – 11:45 AM

Brazil's Semiconductor Industry and Design House Ecosystem
Dr. Jacobus Swart

11:45 – 12:15 PM

Oxide Electronics
Dr. Arokia Nathan

12:15 – 12:45 PM

Dielectrics Materials from Field Effect Transistors to In-Memory Computing
Dr. Durga Misra

12:45 – 2:00 PM

Lunch

DISTINGUISHED LECTURERS



Victor Grimblatt, Ph.D., IEEE EDS/CAS
Executive Director, R&D Engineering, Design Technology Group, Synopsys; General Manager, Synopsys Chile.



Edmundo A. Gutiérrez D., Ph.D., IEEE EDS
General Director of the Mexico National Institute for Astrophysics, Optics and Electronics..



Rodrigo Calderon., Ph.D., IEEE CAS
Sr. Principal, System Architect



Fernando Guarín, Ph.D. IEEE EDS
IEEE Division I Director (2026–2027); Past President, IEEE EDS; former Distinguished Member of Technical Staff, GlobalFoundries.



Ricardo Reis, Ph.D., IEEE CASS
Professor UFRGS, Brazil



Jacobus Swart, Ph.D. IEEE Life Fellow
Professor, University of Campinas. General Coordinator of INCT NAMITEC research network



Arokia Nathan, Ph.D. IEEE EDS
Fellow, Darwin College, University of Cambridge; Professor, School for Information Sciences, Shandong University.



Durga Misra, Ph.D., IEEE EDS
Professor, Department of Electrical and Computer Engineering, New Jersey Institute of Technology.

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