



NNCI Webinar: Innovation and Entrepreneurship

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Lab-to-Fab: Transitioning from University Cleanrooms to Industrial Prototyping and Low-Volume Production

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Abstract: Emerging semiconductor technologies face many challenges in transitioning from initial technology demonstrations to successful products. This talk will discuss an important initial step of transitioning technologies from a university cleanroom into industrial prototyping and low-volume production necessary for initial product sampling. Lessons learned and best-practices for easing this transition will be shared based on Teledyne Scientific Company's experience providing cleanroom fabrication and prototyping services for external customers across a range of non-CMOS technologies. Examples of challenges and successes in process transfer will be provided. Paths for improving the connection between academic and industrial fabs will be considered, as will the transition from prototyping into higher volume production.

Bio: Miguel Urteaga received his M.S. and Ph.D. degrees in Electrical Engineering from the University of California Santa Barbara in 2001 and 2003, respectively. He is currently the Director of Foundry Products and Services for Teledyne Scientific Company (TSC) and manages the advanced device development group. His research has focused on the development of ultra-high speed transistor technologies, primarily in the InP material system. In his current role, Dr. Urteaga is responsible for TSC's integrated circuit Foundry offerings and interfaces with external customers for cleanroom fabrication and prototyping services. He has authored or co-authored over 200 conference and journal publications.

Hosted by Andrew Lingley (Montana State University)



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