

Spring  
2025

# Optics & Photonics Group Lunchtime Seminar Series

University of Nottingham

## **Mechanical properties characterization of organic and inorganic samples by interferometry**

Dr Ana Karen Reyes

*Technological University of Tulancingo*



13:00 Tue 27 May 2025

Coates Road Auditorium



**OPTICS &  
PHOTONICS**  
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Dr Lyle  
Hood

# Mechanical properties characterization of organic and inorganic samples by interferometry

## Biography

Dr. Ana Karen Reyes is An OPTICA Ambassador class 2024. She holds a Ph.D. in Sciences with a specialization in Optics. Dr. Reyes has built a well-rounded career that balances research and teaching at the Technological University of Tulancingo in Hidalgo, Mexico. Her research interests include electronic speckle pattern interferometry, optical tweezers, optical metrology, and the use of optical tweezers as a tool for materials characterization. Dr. Reyes also has extensive teaching experience across multiple educational levels, ranging from elementary and high school to undergraduate and graduate programs.

A passionate advocate for inclusive science and outreach, Dr. Reyes is dedicated to making science accessible to underrepresented and underserved communities. Her work focuses on engaging low-income populations, individuals with visual impairments, women in STEM, and members of the LGBTQI+ community. Her unwavering commitment to equality and accessibility sets her apart as a champion for inclusive scientific education. She strives to inspire others by promoting the idea that “scientists are normal people” and that science is for everyone.

Dr. Reyes leads impactful projects aimed at mentoring the next generation, particularly women in STEM. She is also working toward the establishment of a research group focused on diverse applications of optical metrology, with a strong emphasis on providing opportunities for students from public universities across Latin America.

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All are welcome



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