

## Monday, November 29th, 2021

### Antenna Fundamentals

9:30 Welcome – Guillermo Carpintero (UC3M) On-Site

9:40 – 12:30 Antenna Fundamentals – L.E. García-Muñoz (UC3M) On-Site

12:30 – 13:30 Lunch Break

### Introduction to THz Antennas

13:30 – 15:00 THz Antennas – L.E. García-Muñoz (UC3M) On-Site

15:00 – 16:00 Coffee Break and networking

16:00 – 16:45 Silicon antennas for integrated microphotronics – D. Headland (UC3M) On-Site

16:45 – 17:30 Photo-Semiconductors: Evolution from IR Detectors to THz Sources – E. Brown (Wright Uni, USA) Remote

## Tuesday, November 30<sup>th</sup>, 2021

### High Frequency Instrumentation

9:30 – 12:30 High frequency equipment – ANRITSU On-Site

1. Vector Network Analyzer up to 220 GHz
2. Opto-electronic Network Analyzer (ONA),
3. ME7868A (distributed VNA) for characterization of Antennas

12:30 – 13:30 Lunch Break

### Outlook

13:30 – 14:15 ROM antennas – J. Hirokawa (Tokyo Tech, Japan) Remote

14:15 – 15:00 Dielectric Rod Waveguide Antennas – D. Liubchenko (KTH, Sweden) On-Site

15:00 – 16:00 Coffee Break and networking

16:00 – 16:45 Antennas for Space Missions (SENER Aeroespacial) On-Site

16:45 – 17:30 THz antennas: Industrial vision (ANTERAL) On-Site

## Wednesday, December 1<sup>st</sup>, 2021

### Industrial presentation

9:30 – 12:30 Arbitrary waveform generation and detection KEYSIGHT On-Site

12:30 – 13:30 Lunch Break

### Novel THz Devices

13:30 – 14:15 Fermi-level managed barrier (FMB) diodes – H. Ito (Kitasato Univ. Japan) Remote

14:15 – 15:00 Resonant tunneling diode transceivers – J. Webber (Osaka Univ, Japan) Remote

15:00 – 16:00 Coffee Break and networking

16:00 – 16:45 Field-Effect PIPED: A Silicon-Plasmonic High-Speed Photodetector– W. Freude (KIT, Germany) Remote

16:45 – 17:30 Large Area THz Emitters – G. Döhler (Max Plank, Germany) On-Site

## Thursday, December 2<sup>nd</sup>, 2021

### Photonic Integrated Circuits

9:30 – 12:30 Integrated Microwave Photonics – G. Carpintero (UC3M) On-Site

12:30 – 13:30 Lunch Break

13:30 – 17:30 Hands-on training on PIC Layout Design – L. Orbe (Synopsys) Remote

### Social Event (Dinner at Posada de la Villa)

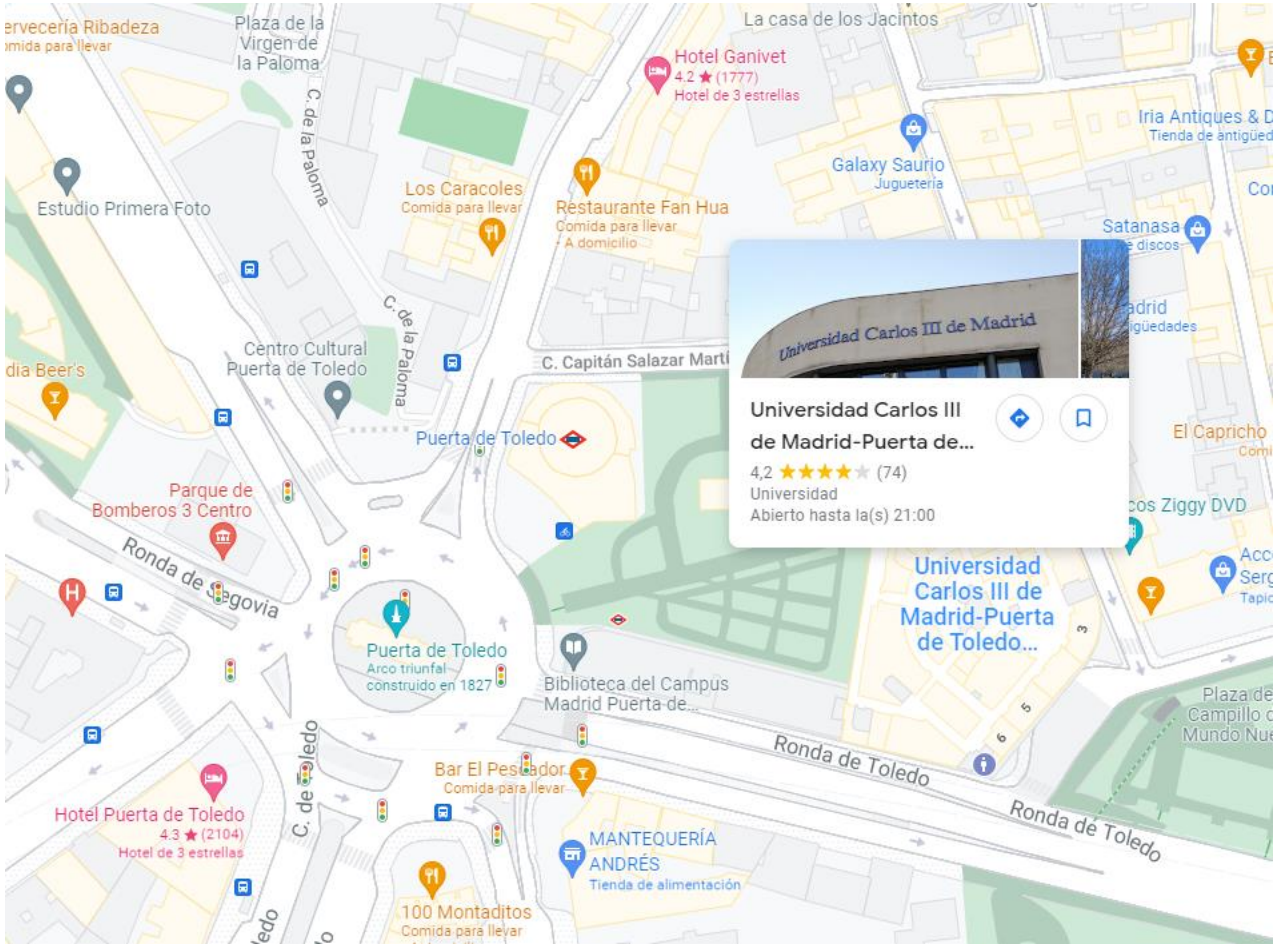
## Friday, December 3<sup>rd</sup>, 2021

9:30 – 13:00 The road to 6G: millimeter-wave testing – ROHDE&SCHWARTZ On-Site

13:00 – 14:00 Lunch Break

14:30 – 17:30 Building your own PDK – L. Orbe (Synopsys) Remote

At the heart of **Madrid**



**Presential attendants**

**Room 1.A.01**

Universidad **Carlos III** de Madrid  
 Campus **Puerta de Toledo**  
 Ronda de Toledo, 1, 28005 Madrid

**Virtual attendants**

A web link address will be distributed to those registered for the evento.

How to register? See next page

Recomended **Hotels** in the area [Hotel Puerta de Toledo](#) & [Hotel Ganivet](#)

To **register for virtual attendance** to the TERAOPTICS 2nd training evento, please visit the TERAOPTICS event information webpage at: <https://teraoptics.eu/training2/>

Select the link in the line “For further information contact Dr Andreas Klein, TERAOPTICS project manager”.

Clicking on this line will open an inscription form, which will ask to provide a contact email.

On the days prior to the event start, you will receive at this email address the weblink to the streaming page.