

## FTIR Theory and Fundamentals

Tues 5<sup>th</sup> Sept, 2023 | 9:00am - 5:00pm AEST

## Thermal Analysis Hyphenated for Evolved Gas Analysis

Wed 6<sup>th</sup> Sept, 2023 | 9:00am - 5:00pm AEST

University of NSW, Kensington

[REGISTER NOW](#)

### You Are Invited To Attend Our Two Day Spectroscopy and Hyphenation Workshop

The FTIR Spectroscopy workshop will involve an informative presentation and practical session designed to help you improve your knowledge and productivity in IR analysis. You will be introduced to new analysis techniques and insight into effective operating procedures with a range of IR accessories. Additionally an in-depth course on IR microscopy and evolved gas analysis will introduce you to advanced techniques capable of expanding the analytical breadth of your lab or research.

#### Key Learning Objectives

- Fundamental understanding of FTIR spectroscopy
- Awareness of the wide range of sampling accessories
- Knowledge on advanced analysis techniques such as IR microscopy and quantification
- Introduction to TGA and IR gas analysis
- Brief outline on the purpose of GCMS for evolved gas analysis
- Practical exposure to the laboratory instruments



#### Speaker:

##### Dr. Tomer Simovich

Tomer is the Principal Applications Specialist for the Materials Characterisation Platform (IR, UV-Vis, Thermal) for PerkinElmer Australia. Tomer has research experience in colloid chemistry and surface coatings working on superhydrophobic and antifouling technologies throughout his PhD and Postdoctoral Fellowship. With PerkinElmer, he has worked with a vast range of scientists, researchers and technicians to support and develop their applications around Australia and New Zealand in areas such as polymer manufacturing, pharmaceutical, chemical analysis and academia.

## Agenda

**Venue:** Seminar Rm G37 Chemical Services Building (F10), University of NSW, Kensington

**Tuesday 5<sup>th</sup> September, 2023**

### FTIR Workshop

09:00 Welcome & Introduction  
09:15 Background on the electromagnetic spectrum and FTIR theory  
11:00 *Tea and coffee break*  
11:30 FTIR instrumentation  
13:00 *Lunch break*  
14:00 Advanced FTIR accessories including microscopy  
15:00 Software and applications  
15:45 Lab hands on with FTIR

**Wednesday 6<sup>th</sup> September, 2023**

### Hyphenation Workshop

09:00 Welcome & Introduction  
09:15 Background on FTIR theory for gas analysis  
10:30 *Tea and coffee break*  
11:00 EGA instrumentation (TGA & GCMS)  
13:00 *Lunch break*  
14:00 EGA applications and examples  
15:00 Lab hands on with TGA-IR-GCMS

### REGISTRATION

*Full Registration:* \$400/day | *Student Registration:* \$80 /day (*Payment is by credit card only*)

*Entry is free to customers who have purchased a new instrument in the last two years. Promo code will be provided to those eligible.*

Limited places available [REGISTER](#) your interest today

Lunch and refreshments will be provided for each day of the event.

Contact : [tomersimovich@perkinelmer.com](mailto:tomersimovich@perkinelmer.com) | 0400 949 858

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