



A JOINT CONFERENCE OF THE

NEW ZEALAND NIR SPECTROSCOPY SOCIETY
AND THE
AUSTRALIAN NIR SPECTROSCOPY GROUP



THE 20th ANISG/NZNIRSS CONFERENCE CHRISTCHURCH, 8th – 11th April 2024

“FROM WAVES TO PEAKS: NIR IN CHRISTCHURCH”



Kea: Curious Mountain Parrot

The twentieth conference of the Australian Near Infrared Spectroscopy Group (ANISG) www.anisg.com.au , co-hosted with the New Zealand Near Infrared Spectroscopy Society (NZNIRSS) will be held in April 2024 in the South Island “Garden City” of Christchurch at the Novotel, on the Cathedral Square. <http://www.christchurchnz.com/> .



A JOINT CONFERENCE OF THE

NEW ZEALAND NIR SPECTROSCOPY SOCIETY
AND THE
AUSTRALIAN NIR SPECTROSCOPY GROUP



NIR technology users, researchers, and students, with a common interest in NIR research, applications and developments, are invited to meet alongside major suppliers of NIR equipment and software, to share experiences centred on the versatility and value of NIR. Vendors will be present in an exhibition area at the conference. Preceding the conference there will be two advanced full day courses covering **Hyperspectral Imaging (Professor José Manuel Amigo)** on Monday 8th, and, **NIRS & Aquaphotomics (Professor Roumiana Tsenkova)** on Tuesday 9th April. In addition, two half day courses will be presented on Tuesday 9th April. **These will cover Vibrational Spectroscopy (Dr Cushla McGovern)** scheduled in the morning followed in the afternoon with **Calibration and Chemometrics (Dr Kyle Devey)**. See below.

A call for papers and posters is now open.

Abstracts are required by 8th February 2024. The template can be found on the main website. A draft programme has been posted on the main website and will be updated early in 2024.

Hotel bookings at either Novotel Cathedral Square or the nearby Ibis Hotel can be made by using the following link.

<https://accorevents.com/offers/racs/asc/2024>



A JOINT CONFERENCE OF THE

NEW ZEALAND NIR SPECTROSCOPY SOCIETY
AND THE
AUSTRALIAN NIR SPECTROSCOPY GROUP



FULL DAY COURSE 1 Monday 8th April 2024

Hyperspectral Imaging: This course aims to interact



on the classic and newest topics related to hyperspectral image analysis including the basic spatial and spectral pre-processing methodologies, linear approaches versus Deep Learning, industry applications and more.

FULL DAY COURSE 2 Tuesday 9th April 2024

NIRS and Aquaphotomics: This course will cover the



introduction and key concepts in Aquaphotomics, molecular composition of water, hydrogen bonding, NIR spectrometers and instrumentation for

Aquaphotomics, chemometrics and data analysis tailored for Aquaphotomics. It also delves into its applications across diverse fields, such as agriculture, environmental science, food and beverages, pharmaceuticals, medical sciences plus recent advancements in Aquaphotomics, and more.

Through hands-on experiments and theoretical concepts, participants will develop a comprehensive understanding of the intricate relationship between water and other substances, paving the way for innovative research and applications.



A JOINT CONFERENCE OF THE
NEW ZEALAND NIR SPECTROSCOPY SOCIETY
AND THE
AUSTRALIAN NIR SPECTROSCOPY GROUP



HALF DAY COURSE 1 Tuesday 9th April 2024

Vibrational spectroscopy: This course will cover the



fundamental aspects of vibrational spectroscopy such as how spectra arise and can be interpreted, different types of instrumentation and sampling techniques.

HALF DAY COURSE 2 Tuesday 9th April 2024

Calibration and chemometrics: This course will cover



an introduction to the area, an explanation of some calibration algorithms and principles, preprocessing and calibration best practice along with the validation and quality assurance approaches essential to the robust applications of infrared

spectroscopy as an analytical tool.