

# Asbestos Sensor Project

## The Team



**Rob Loughan**

*Founder & Chairman  
Flawless Photonics*

Serial entrepreneur, investor and advisor. Rob has led some of the most exciting disruptive start-up companies in the technology industry over the past 25+ years. Rob knows how to execute by assembling world-class teams and leading them to solve challenging problems with the vision for the right product at the right time.



**Prof Nigel Spooner**

*Head, Prescott Environmental Luminescence Laboratory  
The University of Adelaide*

A physicist with expertise in Photonic Sensing of materials, and sensor technological development, focussing on mining and environmental applications. Nigel leads the Prescott Environmental Luminescence Laboratory at the University of Adelaide and the Centre for Radiation Research, Education and Innovation.



**Dr Alexander Hallock**

*Director of Materials & Products  
Flawless Photonics*

Expertise in Physical Chemistry with a focus on spectroscopy. Alex has worked for large companies, the US government, and startups focused on building hardware for chemical analysis. He has particular focus on Raman, absorption, and fluorescence spectroscopy, mass spectrometry, and microscopy.



**A/Prof Sharyn Gaskin**

*Director - Adelaide Exposure Science and Health  
The University of Adelaide*

Expertise in Occupational & Environmental Health, with a focus on developing effective interventions to control and prevent exposure to hazards. Sharyn contributes an advisory role to this project.



**Dr Erik Schartner**

*Senior Postdoctoral Researcher  
Prescott Environmental Luminescence Laboratory  
The University of Adelaide*

Erik has a background in Physics, primarily in the area of optical sensor development and commercialisation, covering applications from medical sensing to metals processing.



**Dr Cornelia Wilske**

*Postdoctoral Researcher  
Prescott Environmental Luminescence Laboratory  
The University of Adelaide*

Research focus in mineralogical and fluid age dating and complex data analysis.

**For further information contact:**

Prof Nigel Spooner  
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Dr Erik Schartner  
erik.schartner@adelaide.edu.au



## Dr Jillian Moffatt

*Postdoctoral Researcher  
Prescott Environmental Luminescence Laboratory  
The University of Adelaide*

Research focus in discovery and characterisation of fluorescence signatures in minerals.



## Dr Alexandra Chapsky

*Postdoctoral Researcher  
Prescott Environmental Luminescence Laboratory  
The University of Adelaide*

Expertise in Radiation Physics and Optical Engineering.



## Dr Tom de Prinse

*Postdoctoral Researcher  
Prescott Environmental Luminescence Laboratory  
The University of Adelaide*

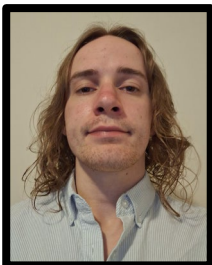
Technical operation and overall optimisation of the laser systems and detection equipment. Tom completed Honours degree majoring in chemistry, with his PhD focused on using laser spectroscopy for the detection of organic compounds.



## Danielle Questiaux

*Research Associate,  
Prescott Environmental Luminescence Laboratory  
The University of Adelaide*

Geologist and technologist, with a focus on mineral and environmental sensing.



## Joshua Rusby

*Masters Student  
Prescott Environmental Luminescence Laboratory  
The University of Adelaide*

Research focus on the fluorescence of target minerals for Space applications.



## Ajay Chopra

*Head of Finance  
Flawless Photonics*

Ajay has over 25 years of experience in Finance and Operations in the financial services, renewable energy, and manufacturing industries panning Fortune 100 and Startup companies around the globe. Ajay holds an MBA in Finance and a Bachelor of Engineering



## Helena Wescombe-Down

*Project Manager, Institute for Photonics & Advanced Sensing  
The University of Adelaide*

Helena has an extensive background in project management, business and financial management & continuous Improvement, with a solid background in managing, engaging and developing small to large teams.