



Welcome to the 17th Asia-Pacific Conference on Fracture and Strength
and
the 13th Conference on Structural Integrity and Failure
6 - 9 December, 2022
The University of Adelaide, Adelaide, South Australia



**Nondestructive Detection of the Degradation of
Crystallinity of Ni-based Superalloys
Under Creep-Fatigue Loading
at Elevated Temperatures by
Visible Light Spectrum Analysis in the Atmosphere**

○Hayato Matsuda^a, Ayumi Nakayama^a, Runzi Wang^b,

Ken Suzuki^b, Hideo Miura^b

a. Dep. of Finemechanics, Grad. School of Eng., Tohoku University

b. Fracture and Reliability Research Institute, Tohoku University



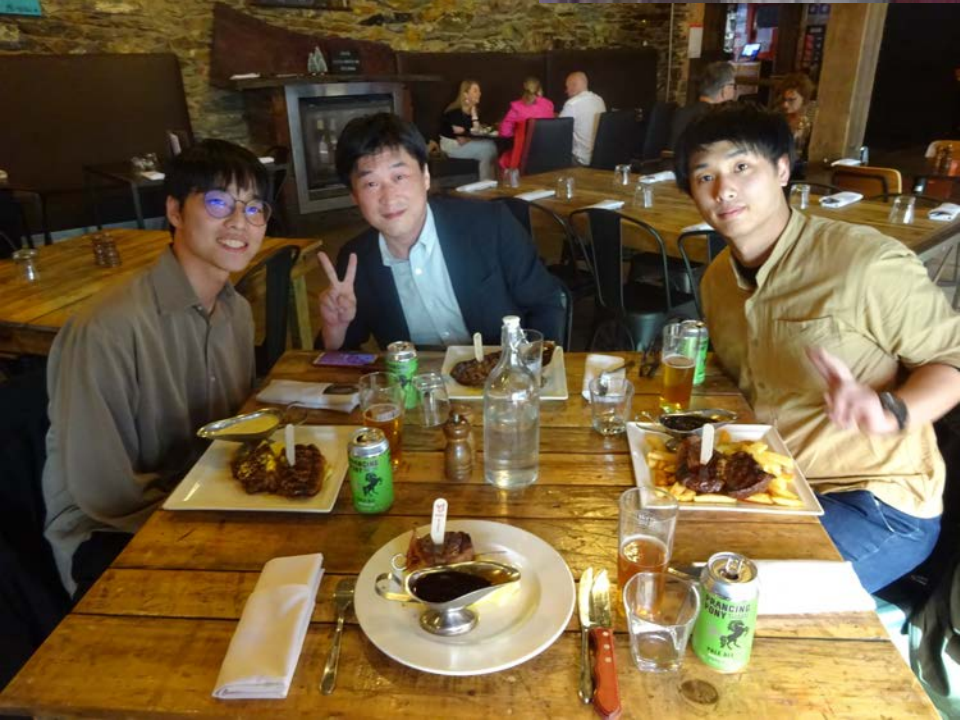
**Substrate Material Effects on the Electronic Band
Structure of Graphene and the Adsorption
Properties of Gas Molecules on its Surface**

**Kenryu Hasegawa¹⁾, Meng Yin¹⁾, Xiangyu Qiao¹⁾,
Ken Suzuki²⁾ and Hideo Miura²⁾**

1) Department of Finemechanics, Graduate School of Engineering,
Tohoku University

2) Fracture and Reliability Research Institute, Graduate School of
Engineering, Tohoku University





Lamb steak



Wild flying squirrel