

Young Person's World Lecture Competition 2018



Reported by: Dr. Nazatul Liana Sukiman (University of Malaya), UM-MLC Committee & Andrew Ng Kay Lup (University of Malaya), MLC2018 Winner/Malaysia Finalist in YPWLC2018
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Date: 11th October 2018
Venue: Fairview Course Arena, Port Elizabeth, South Africa



The Young Persons' World Lecture Competition (YPWLC 2018) has been organised and held annually by the Institute of Materials, Minerals and Mining (IOM3) U.K. since 2005. Eight finalists from eight different countries participated in YPWLC 2018 held on 11th October 2018 at Fairview Course Arena, Port Elizabeth, South Africa. The names and presentation topics of the YPWLC 2018 is listed in the Table. In this competition, the finalists have to deliver a 15-minute technical lecture to an audience from diversified background on topics related to materials, minerals and mining. Malaysia was represented by Materials Lecture Competition 2018 (MLC 2018) first winner, Andrew Ng Kay Lup from University of Malaya.

The winners of YPWLC 2018 are as follows;

First Place: Kyle Saltmarch (Australia)

Second Place: Lin Guo (Hong Kong)

Third Place : Andrew Ng Kay Lup (Malaysia)

As the third place winner, Andrew received £1,000 cash award, Macbook Air and one-year complimentary IOM3 membership. His South Africa trip from 6th to 12th October 2018 was also fully sponsored and supported by IOM3, Companhia Brasileira de Metalurgia e Mineração (CBMM) and Rolls-Royce. During their stay in South Africa, the organisers took all the YPWLC 2018 finalists for industrial, academia and township visits such as the Volkswagen Auto Industrial Zone, Nelson Mandela University and Curro Westbrook School. Dr. Nazatul Liana Sukiman from University of Malaya also attended the event as representative of Institute of Materials, Malaysia (IMM) and to give moral support to Andrew.

| No | YPWLC 2018 Finalist | Country | Presentation Title |
|----|----------------------|----------------|--|
| 1. | Sam Lawton | United Kingdom | Polymer Power: From Light to Current |
| 2. | Alexandra Kuznetsova | Russia | Extracting Oil from Impossible-to-Extract Rock |
| 3. | Kyle Saltmarch | Australia | Acoustic based Condition Monitoring in the Resource Industry |
| 4. | Matheus Santos | Brazil | Insights on the Optimisation of the Steel Ladle Process from a Refractory Perspective |
| 5. | Andrew Ng Kay Lup | Malaysia | Bio-Crude Oil from Lignocellulosic Biomass: A Zero-to-Hero Energy Scenario |
| 6. | Fariraishe Nyoni | South Africa | Burn Cut Optimisation to Increase Blast Advance at Unki Mine |
| 7. | Naveen Tiwari | Singapore | Self-Healable and Flexible Materials for Next Generation Electronic Devices: Smart Materials |
| 8. | Lin Guo | Hong Kong | Combatting Cancers with a New Superweapon |

The judging panel includes Kerry Kirkman (Chair of IOM3 South Africa), Dr. Bernie Rickinson (Chief Executive of IOM3) and Cathy Garde (Committee Member of IOM3 South Africa). The panel was chaired by Dr. Philip Bischler (IOM3).



Figure 1: Finalists of YPWLC 2018 (From top left to bottom right): Sam Lawton (UK), Naveen Tiwari (Singapore), Matheus Santos (Brazil), Kyle Saltmarsh (Australia), Alexandra Kuznetsova (Russia), Fariraishe Nyoni (South Africa), Lin Guo (Hong Kong) and Andrew Ng Kay Lup (Malaysia)



Figure 2: Andrew receiving his prize and certificate from Kerry Kirkman



Figure 3: Andrew with Dr. Nazatul Liana Sukiman (University of Malaya) and Dr. Philip Bischler