PRESENTATIONS FROM:

The Hon Rob Stokes MP, NSW Minister for Education
Mark Scott AO, Secretary, NSW Department of Education
Meg Brighton, Deputy Director-General, ACT Education Directorate, Member, National STEM Partnerships Forum
Kelsie Dadd, Program Director, Curious Minds
Peter Ellerton, Director, UQ Critical Thinking Project
Joanna Horton, Lead Author, Sunrise Industries, Data61 CSIRO
Prof Tom Lowrie, Centenary Professor & Director of STEM Education Research Centre
Maya Marcus, Education Lead, UTS Innovation & Entrepreneurship Unit
Sherill Nixon, Director of Donor Relations, Schools Plus
Ami Pasricha, CEO, Robogals
Dr Stefan Schutt, Director, Whittlesea Tech School and co-founder, The Lab
Sid Verma, Founder & Executive Director, BrainSTEM
Kylie Walker, CEO, Science & Technology Australia, Chair, Australia National Commission for UNESCO
Natalie Wall, Finalist, CSIRO Indigenous STEM Teacher Award 2017

EXHIBITOR:

Kookaburra Educational Resources

8:50 OPENING | Opening remarks from the Chair

STEM EDUCATION STRATEGY
9:00 National STEM School Education Strategy 2016-2026 update
Meg Brighton, Deputy Director-General, ACT Education Directorate, and Member, National STEM Partnerships Forum

9:30 KEYNOTE | Learning Futures Now. Small (but achievable) moves to support great(er) learning
Peter Mahony, Educational and Digital Learning Manager, Museum of Applied Arts & Sciences

10:00 STEAMPunk Girls: Co-Designing STEAM Engagement
Maya Marcus, Education Lead, UTS Innovation & Entrepreneurship Unit
With Lisa Wark, Head Teacher Technological and Applied Studies, Riverside Girls High School

10:30 Morning tea and Networking Break

11:00 MINISTERIAL ADDRESS | NSW Minister for Education
The Hon Rob Stokes MP, NSW Minister for Education

CHANGE LEADERSHIP IN SCHOOLS
11:30 KEYNOTE | Lighting the Fire - The transformational impact of indigenous science inquiry and the challenges that burn STEM opportunities in schools
In this presentation I will describe CSIRO’s Inquiry for Indigenous Science Students program (I2S2) and the significance of incorporating Aboriginal and Torres Strait Islander perspectives into science education. I’ll detail the transformational impact I2S2 has had within our school and the challenges to STEM education within my school’s context that are likely highly relatable to many other schools. I’ll emphasise the imperative for schools to collaborate with external STEM professionals, agencies and organisations and for the need for inquiry based learning to drive science curriculum across all year levels.
Natalie Wall, Finalist CSIRO Indigenous STEM Teacher Award 2017, Loganlea State High School

12:00 CASE STUDY | STEAMING AHEAD – Lower North Shore Community of Schools
The LNSCoS network is a STEAM based network that have successfully brought together teachers across the discipline to promote STEAM education within the Lower North Shore region. In this presentation founding members share their experiences of developing this network and the benefits and challenges overcome by teachers banding together. The LNSCoS network has been successful in establishing iSTEM courses across multiple schools, coordinating and aligning programs to offer students inter-school learning opportunities and the rapid development of new resources.
Kath Spillane, Relieving Head Teacher Science, North Sydney Girls High School
Lloyd Mirto, Acting Head Teacher Science, Cammeraygal High School

12:30 Lunch and Networking Break

INTEGRATED LEARNING
13:30 KNOWLEDGE CAFE | Intelligence, Technology and a Shift in Education
Get talking with your table hosts on key issues, including:
— The shift to from STEM to STEAM and integrated problem-based learning: objectives and outcomes
— Designing and implementing a STEM/STEAM unit – resistance, resources, support and implementation
— Taking education out of the classroom
— Technology in education: how versus how much, measuring engagement and ‘success’
— Teaching beyond your comfort zone, and going beyond the curriculum
Dr Stefan Schutt, Director, Whittlesea Tech School and Cofounder, The Lab
Sid Verma, Founder & Executive Director, BrainSTEM
Natalie Wall, Finalist CSIRO Indigenous STEM Teacher Award 2017, Loganlea State High School

14:00 Women in STEM and Entrepreneurship

14:30 KEYNOTE | STEM, STEAM and a liberal Education. Why we want it all.
Mark Scott AO, Secretary, NSW Department of Education

15:00 Afternoon Tea and Networking Break

STEM IN INDUSTRY
15:30 Sunrise Industries: Emerging industries and the implications for the future of education
Dr Joanna Horton, Lead Author Sunrise Industries Report, Data61 | CSIRO

16:00 STEM skills for Australia’s workforce
Niamh McPherson, Partner, Deloitte
John Pickering, Partner, Deloitte

16:30 PANEL | Engagement, Industry and Work Integrated Learning
Rick Evans, Workforce Development Manager, ME Program, RDA Hunter
Jackie Randies, Manager, Inspiring Australia (NSW)
Andrew Sezonov, Acting General Manager, Skilling Australia Foundation

16:50 CLOSING | Closing remarks from the Chair

17:00 Networking drinks
**STEM Education Conference**

**Thursday 26 July 2018**

<table>
<thead>
<tr>
<th>TRACK 1: PRIMARY SCHOOL SESSIONS</th>
<th>TRACK 2: SECONDARY SCHOOL SESSIONS</th>
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<tbody>
<tr>
<td><strong>9:00</strong> <strong>CASE STUDY</strong></td>
<td><strong>ELS A Pilot: Engaging children with STEM Practices through play-based digital learning</strong>&lt;br&gt;Professor Tom Lowrie, Centenary Professor, University of Canberra</td>
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<td><strong>9:20</strong> A stands for Critical Thinking: What can art bring to STEAM?&lt;br&gt;Alex White, Digital Learning Producer, Museum of Contemporary Art Australia</td>
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<td><strong>9:40</strong> <strong>CASE STUDY</strong></td>
<td><strong>Lighting the fire of STEM at St Ives North PS</strong>&lt;br&gt;Mrs Barbara Ryan, Assistant Principal and STEM Coordinator, and Jessica Legg, Year 4 Classroom Teacher, St Ives North Public School</td>
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<td><strong>10:40</strong> <strong>CASE STUDY</strong></td>
<td><strong>WoorannaCoin: School on the Blockchain</strong>&lt;br&gt;Kieran Nolan, Teacher, Wooranna Park Primary School</td>
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<td><strong>10:40</strong> <strong>CASE STUDY</strong></td>
<td><strong>SA Schools Space Mission</strong></td>
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<td><strong>11:00</strong> Morning tea and Networking Break</td>
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<td><strong>REAL WORLD CONNECTIONS</strong></td>
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<td><strong>11:30</strong> <strong>STEM Professionals in Schools – Bringing AI into the classroom</strong>&lt;br&gt;Camille Rogers, NSW Project Officer, STEM Professionals in Schools</td>
<td><strong>11:30</strong> Inspiring tomorrow’s engineers today&lt;br&gt;Ami Pasricha, CEO, Robogals</td>
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<td><strong>11:50</strong> Running out of STEAM: why it can’t work without critical thinking&lt;br&gt;Peter Ellerton, Director, UQ Thinking Project</td>
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<td><strong>12:10</strong> Can primary children understand atomic- molecular theory? Challenging the science curriculum paradigm&lt;br&gt;Dr Carole Haeusler, Lecturer in Science Education, University of Southern Queensland</td>
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<td><strong>12:10</strong> P-Tech Australia: An innovative model of education/ industry collaboration&lt;br&gt;Andrew Sezonov, Acting General Manager, Skilling Australia Foundation</td>
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<td><strong>12:30</strong> How to inspire a Curious Mind through girls’ STEM camps and mentoring&lt;br&gt;Kelsie Dadd, Program Director, Curious Minds</td>
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<td><strong>12:30</strong> Smarter giving: connecting schools and industry&lt;br&gt;Sherrill Nixon, Director of Donor Relations, Schools Plus</td>
<td>With representatives from: Casula High School and Salesforce</td>
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<td><strong>12:50</strong> Accessible STEM: working with strengths and dealing with barriers&lt;br&gt;Dr Stefan Schutt, Director, Whittlesea Tech School and Cofounder, The Lab</td>
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<td><strong>12:50</strong> Superstars of STEM: smashing old stereotypes and empowering women&lt;br&gt;Kylie Walker, CEO, Science &amp; Technology Australia and Chair, Australian National Commission for UNESCO</td>
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<td><strong>13:10</strong> <strong>SOLUTION ROOM</strong></td>
<td><strong>Small-group problem solving</strong></td>
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<td><strong>13:30</strong> Lunch and Networking Break</td>
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<td><strong>WORKSHOPS: MUST PRE-REGISTER FOR WORKSHOPS</strong></td>
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<td><strong>14:30</strong> <strong>WORKSHOP A</strong></td>
<td><strong>Computational thinking with MAAS ThinkerShield</strong>&lt;br&gt;Peter Mahony, Educational and Digital Learning Manager, Museum of Applied Arts &amp; Sciences</td>
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<td><strong>14:30</strong> <strong>WORKSHOP B</strong></td>
<td><strong>Planning and programming STEAM on a budget</strong>&lt;br&gt;Lloyd Mirto, Acting Head Teacher Science, Cammeraygaal High School</td>
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<td><strong>15:30</strong> Afternoon Tea and Networking Break</td>
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<td><strong>16:00</strong> <strong>WORKSHOP C</strong></td>
<td><strong>You, too, can teach Atomic Theory to your primary students!</strong>&lt;br&gt;Ian Stuart, Founder, Atomic School</td>
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<td><strong>16:00</strong> <strong>WORKSHOP D</strong></td>
<td><strong>Classroom transformations: Real-world, hands-on biotechnology lessons with the Amgen Biotech Experience</strong>&lt;br&gt;Eugenia O’Brien, Senior Science Communicator, University of Sydney</td>
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<td><strong>17:00</strong> End of Conference</td>
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STEM Education Conference
25 – 26 July 2018 | Rydges World Square, Sydney

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<td>Conference Package</td>
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