

| State Library of NSW | | Teaching and Learning – DISRUPTION April 29, 2016 | | School Library Association, NSW |
|----------------------|--|--|--|---------------------------------|
| 8:30 – 9:00 | Registration – “Knowing is not enough; we must apply. Willing is not enough; we must do.” Johann Wolfgang von Goethe | | | |
| 9:00 – 9:10 | Welcome and opening remarks Megan Perry, Manager, Learning Services, State Library of NSW | | | |
| 9:10 – 10:10 | Technology, the brain, and education Jared Cooney Horvath Melbourne School of Psychological Sciences, University of Melbourne | | | |
| 10:10 – 10:40 | Learning at the Library update – curriculum materials, resources, programs onsite, online and on tour! Megan Perry, Manager, Learning Services, State Library of NSW | | | |
| 10:40 – 11:00 | Morning tea – Dixson Room | | | |
| | Macquarie Room | Glasshouse | Metcalfe Theatre | |
| 11:00 – 11:50 | 1.1 STEM: Getting physical to keep kids motivated Joachim Cohen INTEL Australia | 1.2 Digital disruption and the book world Christopher Cheng in conversation with Dr Rachel Franks | 1.3 Memory: Implications for digital learning tools Jared Cooney Horvath Melbourne University | |
| 11:55 – 12:50 | 2.1 Power researching Michelle Jensen School Library Association NSW | 2.2 STEM professional learning agenda Pru Mitchell Australian Council for Educational Research | 2.3 Trove and the digital classroom Ben Pratten National Library of Australia | |
| 13:00 – 14:00 | Lunch – Dixson Room | | | |
| 13:15 – 13:45 | Optional guided exhibition tour | | | |
| 14:00 – 14:50 | 3.1 STEM: Accelerate student learning Zeina Chalich St Finbar’s Primary School, Sans Souci | 3.2 DX Lab Paula Bray State Library of NSW | 3.3 The brain in the classroom Jared Cooney Horvath Melbourne University | |
| 15:00 – 15:15 | 1st day wrap up – learnings Metcalfe Theatre | | | |

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| 8:30 – 9:00 | Registration | | |
| 9:00 – 9:40 | Welcome and opening remarks Michelle Jensen, President, School Library Association NSW | | |
| 9:40 – 10:20 | Models for leading and managing Wilma Kurvink WMK Consulting | | |
| 10:20 – 10:50 | Morning tea – Dixson Room | | |
| | Glasshouse | Metcalf Theatre | Computer Room |
| 10:55 – 11:50 | 1.1 STEM: Prototyping with breadboards Suzie Feodoroff St Mary's College, Gunnedah | 1.2 Strategies for success Wilma Kurvink WMK Consulting | 1.3 A walk through the NEW State Library website Pauline Fitzgerald State Library of NSW |
| 11:55 – 12:50 | 2.1 STEM: Making coding FUN for everyone Nicky Ringland Grok Learning | 2.2 Creating your own action plan for change Wilma Kurvink WMK Consulting | 2.3 Preparing yourself and your students for the sexiest jobs in the 21C – Working with data Karen Visser – Data Librarian Australian National Data Service |
| 13:00 – 14:00 | Lunch – Dixson Room | | |
| 14:00 – 14:50 | 3.1 STEM: Coding in your library Sunny South Sydney Secondary College – Leichardt Campus | 3.2 360 degree storytelling Michelle Jensen School Library Association NSW | 3.3 Hands on data dabbling Karen Visser – Data Librarian Australian National Data Service |
| 15:00 – 15:15 | Conference wrap up - Metcalfe Theatre | | |

Completing *Teaching and learning - DISRUPTION* will contribute 4 hours and 45 minutes per day (9 hours and 30 minutes for 2 days) of QTC Registered PD addressing Standard descriptors 2.6.2, 6.2.2, and 7.4.2 of the Australian Professional Standards for Teachers at the level of Proficient Teacher from the Australian Professional Standards for Teachers towards maintaining Proficient Teacher Accreditation in NSW.



Cost:
One day - \$100
Two days - \$180
Bookings – **92731778** or
learning.library@sl.nsw.gov.au
<http://www.sl.nsw.gov.au/learning>

Keynote Speakers

Jared Cooney Horvath

Jared Cooney Horvath is currently in his third year of a research PhD in Cognitive Psychology / Neuroscience at University of Melbourne. Before moving down-under, Jared worked as a brain researcher and academic coordinator at the Berenson-Allen Center for Non-Invasive Brain Stimulation at Harvard Medical School. Prior to earning his MEd in Mind, Brain, & Education from Harvard University, Jared spent 6 years working as a teacher and curriculum developer for several institutions around Los Angeles, Seattle, and Boston. In addition to research, Jared is also the co-founder of The Education Neuroscience Initiative - a company dedicated to bringing the latest in educationally relevant neuroscientific findings to students and educators at all levels. Jared is currently working on utilizing Transcranial Magnetic Stimulation (TMS) and Transcranial Direct Current Stimulation (tDCS) - two forms of non-invasive brain stimulation - to explore attention during active learning. Jared hopes to explore avenues for possible non-pharmaceutical therapies for educationally relevant attentional disorders, including ADD/ADHD.

Technology, the brain, and education (Keynote)

The meteoric rise in publicly available digital technologies has, perhaps, only been matched by the meteoric rise in claims about the impact these technologies are having on our children. In this talk, we will take a look at several of these claims and, using both brain and behavioral principles, assess the merits of each. Once this foundation is laid, we will take a look at technology in education and explore what we can (and cannot) reasonably expect from digital tools in the classroom. It is my hope that this session will leave learners better equipped to consider and assess claims made about the impact and promises of educational technology in the future.

Memory: Implications for digital learning tools

Despite what some think, memory is not a 'singular' process - rather, it is a complex process that works in tandem to allow for successful learning to occur. In this interactive session, we will explore the different memory systems and examine how each contributes to educational outcomes. Finally, we will take a look at several practical strategies educators and designers can utilize to best leverage memory systems and improve learning in digital environments.

The brain in the classroom

The last decade has seen a tremendous influx in neuroscientific interest within the educational sector. However, despite years of work, very little (if any) brain work has been successfully translated to classroom practice. This interactive talk begins by walking the audience through several key scientific

concepts – including levels-of-organisation and emergence. This exploration will establish a set of rules by which we can determine whether a piece of scientific research is or is not applicable to the classroom. Once this framework is established, we will go through several specific examples of successful translation from the laboratory to the classroom.

Wilma Kurvink (Keynote)

Wilma is a teacher and curriculum leader with many years of experience in disadvantaged school settings, before she qualified in librarianship. While working at Wesley College she completed a Masters’ degree in Innovation and Service Management. She led the library service across three campuses, developing innovative reading programs, curriculum projects, implementing new approaches to Library management and team building. Wilma has presented at many national and international professional forums.

Wilma will discuss approaches to equipping teachers with the skills, tools, and approaches to adapt library environments, collections and programs to meet the needs of the 21st C learner. While technology is providing many opportunities to expand roles and relationships, finding a meaningful pathway into the future is daunting for many. Resilient leadership and capabilities, stakeholder engagement, management skills, team dynamics, change management models and the role of the Library in meeting school goals and priorities will be discussed.

Workshop presenters

Zeina Chalich

Zeina is a dynamic educator with teaching and mentoring experience at primary school and university level. Winner of the ACEL New Voice Scholarship, Zeina, in her role as Leader of Learning & Innovation, drives whole school change in applying digital pedagogy. She creatively integrates technology to transform authentic learning and connect communities of learners. She is passionate about Design Thinking and is currently exploring innovative ways to develop creative thinking through a STEAM curriculum. Zeina facilitates innovative professional learning opportunities for staff on performance growth in action and in using contemporary pedagogy. Zeina is a moderator of the #aussieED twitter chat where she has hosted chats on topics like Digital Leadership, Growth Mindset, Maker Space and Coaching.

Christopher Cheng

Christopher is an award winning author of many children's books including non-fiction (he once worked in a zoo living with real animals), picture books and Chinese themed historical fiction titles. He wrote the libretto for a children's musical, is co-chair of the Advisory Board for the Society of Children's Book Writers and Illustrators (SCBWI), a recipient of the Lady Cutler Award for Children's Literature and he presents in schools and at festivals around the world.

Joachim Cohen

Joachim is a passionate educator who revels in the incorporation of digital technology to enhance and redefine learning. He is an advocate of Personalised Learning and has a passion for Inquiry and Problem based approaches. As both a Teacher Librarian in a NSW school and Education Officer with the Digital Education Revolution he has driven the facilitation of access to online Learning Tools including Google Apps and Office 365 as well as working on the development of state wide policy on BYOD. Joachim is currently Education Outreach Program Manager at Intel Australia. He is a believer in the power of connections and communities in the ability to pool and share knowledge to drive increased outcomes for all.

Suzie Feodoroff

Science, Technology & iSTEM Teacher, Catholic Secondary Education Sector, Gunnedah, NSW. Suzie works at a Catholic high school in regional NSW. She has gained a Master of Information Communication Technology in Education and has more than 10 years teaching experience. Currently, Suzie is teaching junior science, senior physics, information and software technology (IST), and iSTEM. She has a passion for teaching through making and is a lifelong learner. In her workshop, Prototyping with Breadboards, participants will be introduced to prototyping using breadboards. These activities can be incorporated into science, physics and STEM classrooms or maker spaces. Participants will learn how to connect simple breadboard circuits comprising LEDs, resistors, and switches. They will explore more complex projects involving sensors for detecting and seeking obstacles, and controlling motors. There will be a discussion on how these skills can be further evolved into embedded and robotics projects incorporating Arduino development boards. An interactive showcase of projects will be available including a simple motor, steady-hand game, dimmer switch, a lie-detector, a weather station and various robots.

Pauline Fitzgerald

Pauline Fitzgerald is the Senior Education Officer in Learning Services at the State Library of New South Wales. Pauline is a qualified Primary teacher with many years' teaching experience in Australia, New Zealand and England. For the last fifteen years she has worked in cultural organisations, first at the Australian Museum and currently at the State Library of New South Wales where she has contributed to the establishment of the Learning Services branch. Learning Services offer programs onsite, online and on tour around NSW. The main focus of Pauline's work is the design and development of engaging

learning experiences for young people. She is a passionate educator with a particular interest in facilitating the inclusion of student voice into cultural organisations.

Dr Rachel Franks

Rachel Franks is the Coordinator, Education & Scholarship at the State Library of NSW and a Conjoint Fellow, University of Newcastle, Australia. Rachel holds a PhD in Australian crime fiction and her research in the fields of crime fiction, true crime, food studies and information science has been presented at numerous conferences. An award-winning writer, her work can be found in a wide variety of books, journals and magazines as well as on social media.

Michelle Jensen

Michelle Jensen inspires students, teachers and librarians every day, as a Teacher Librarian at a DoE High School and as President of the School Library Association of NSW. Her most recent work has been on the Great School Libraries campaign as a member of FAIR schools. Michelle has presented at EduTech in 2014 and 2015 providing participants with cutting edge approaches to the use of Technology in the classroom and library. During 2015 Michelle ran a campaign called TeachMeet Library Connect to connect teachers with their local libraries. This year Michelle will deliver her Pop Up Makerspace at local libraries again with the aim to connect local libraries with teachers. Last year the Pop Up Makerspace was delivered at several schools, conferences and co-working spaces in NSW. Michelle's own practice has evolved to support the paradigm shift due to technological innovation. She recently transformed her school's library incorporating an iPad bar to synthesis information and an ever-evolving Maker Space. Michelle studied game theory as a part of her Masters thesis.

Pru Mitchell

Pru is the Manager, Information Services, Australian Council for Educational Research. She is an education specialist librarian with diverse experience across Australian school, TAFE and university libraries, plus twelve years managing national online education projects including the Schools Catalogue Information Service (SCIS). She now leads ACER's Cunningham Library team which is responsible for production of key research databases including the Australian Education Index, the IDP Database of Research on International Education and the Digital Education Research Network (DERN). Pru is an adjunct lecturer in the School of Information Studies, Charles Sturt University. She has undertaken national research projects in educational metadata, professional standards and ICT-based professional learning. In 2010 she was awarded the Australian School Library Association Citation. In her spare time Pru is Vice-President of Wikimedia Australia.

Ben Pratten

Ben joined the National Library of Australia in 2009 and is currently acting as the Education Manager. He studied Australian history at the University of Newcastle and the ANU, and is now completing a Master of Liberal Arts (Museums and Collections). Ben has a particular interest in facilitating learning through digital resources and technology.

Trove is the National Library of Australia's flagship discovery service for the public. It supports the discovery and annotation of items in Australian collections, including access to libraries, archives, university repositories and major online collections such as archived websites, digitised newspaper articles, pictorial material and national bibliographical databases. The National Library of Australia's Digital Classroom is a free, cross-disciplinary resource featuring video, downloadable images, and comprehensive lesson plans for teachers and their students. The education materials on the site are aligned closely to the Australian Curriculum and provide activities to engage students with significant items from the collection. In this session, find out how to effectively incorporate these valuable resources into your teaching and your students' research methods.

Nicky Ringland

Nicky is currently completing her PhD in Computer Science at the University of Sydney and is a co-founder of Grok Learning. Nicky is passionate about teaching the next generation the skills they need to become the creators of tomorrow. Nicky helps inspire students of all ages through running the National Computer Science School and the Girls Programming Network.

Sunny South

Sunny South is a Teacher Librarian currently working at Sydney Secondary College Leichhardt campus in Sydney's inner west. Prior to that she was a technology integrator in an eastern suburbs independent school. Her interest in technology and libraries has come together in the busy learning hub she's created at Leichhardt. Sunny believes that teacher librarians can be influential change agents in their schools, by actively promoting creative and collaborative responses to teaching and learning as well as creating a place where students just want to hang out and try new technologies. On offer in her library are a range of maker activities across the school day including break time, low and high tech activities and groups, and tech workshop days, particularly for girls at the school. As well as teaching full time, Sunny is the secretary of the School Library Association of NSW and is a BOSTES accredited Highly Accomplished Teacher. Sunny has presented at conferences, Teachmeets and workshops for teachers and teacher librarians on both the role of social media in education and Makerspaces in Libraries. She regularly runs an online course for teachers using social media in the classroom.

Karen Visser

Karen is a Data Librarian with the Australian National Data Service (ANDS) which is a federally funded group bringing to life Australia's national research data library catalogue. Karen was a teacher for 25 years and Teacher Librarian at various Canberra schools for over 10 years, as well as being active in ACT ASLA and publishing several articles in ACCESS. She moved to the Australian National University as an Information Literacy coordinator, then managed the online learning system at ANU before becoming Program Leader for Research Data training at ANDS.

Session 1: Preparing yourself and your students for the sexiest jobs in the 21C – Working with data. Teacher Librarians can play a pivotal and leading role in supporting our school communities to be research data savvy - a world of new information resources which is the new hot topic in government, education and business. This session will help you to understand the basics in what (is research data), where (you can find research data with teaching materials already written!), why (it is something TLs really need to include in their own literacy and in Library collections) and how (TLs can introduce this new information format into their partnerships with subject teachers). Session 2: Hands on Data Dabbling. This session will take you on a hands on research data treasure hunt around the world. We'll explore places you can find research data suitable for schools and assess the teaching materials and where these data sets could be used in the curriculum. Find out how teachers can work with their students to contribute to real, nationally significant Australian data sets. We will discuss some ideas of how TLs could introduce research data to teachers as an exciting learning opportunity.