

Digital Learning News

14th October 2016



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Blog Posts

The wicked problem of technologies in education: the need for playful designs: Deans Lecture Series, Associate Professor Michael Henderson; 6:30pm, 18th October (Refreshments served 6pm, lecture starts at 6:30pm, concludes at 7:30pm); Monash University, Menzies Lecture Theatre H3, 20 Chancellors Walk, Clayton Campus; [Register now!](#) [More...](#)

Digital Literacy School Grants (DLSG): The Digital Literacy School Grants are an initiative under the Inspiring all Australians in Digital Literacy and STEM measure of the National Innovation and Science Agenda.

Grants of between \$10,000 and \$50,000 are available for schools and other organisations to encourage and facilitate implementation of the new Australian Curriculum: Digital Technologies. Grants will be awarded for project proposals that demonstrate innovative methods for driving enhanced digital literacy in schools. [More...](#)

VicSTEM: On Tuesday 6 September, the Minister for Education and the Minister for Families and Children together launched *STEM in the Education State*, Victoria's STEM education policy. VicSTEM is your one-stop shop for all things science, technology, engineering and mathematics (STEM) related. You can also download a copy of *STEM in the Education State* at this website. VicSTEM brings together the latest tips and advice, fun activities, career pathways and professional learning initiatives for educators, students and families. VicSTEM will be updated as new initiatives and

programs are rolled out. www.education.vic.gov.au/vicstem [More...](#)

Victorian Maths Challenge: The Victorian Maths Challenge is now open and we are encouraging families with children in Years 5 to 8 to join in the fun. The Challenge, which runs until 29 November this year, provides a range of hands-on, open-ended and interactive activities that promote problem solving. Whether it's erecting a paper tower in the Eureka Challenge, making estimations in the Paper Planes Challenge or building and keeping a boat afloat in the Titanic Challenge, there is a challenge to interest everyone in the family. [More...](#)

Wolfram software available now: All Victorian secondary schools are now able to access the Wolfram software suite, thanks to a three-year agreement made with the Department. The Wolfram suite of products includes powerful learning tools across science, technology, engineering and mathematics (STEM) and is internationally recognised as the global industry standard for engineers, economists, scientists and mathematicians. The suite has four unique applications in the areas of computation, problem modelling, coding and more. [More...](#)

Taking Small BYTES: Taking Small BYTES was launched by the Minister for Children and Families on Tuesday 6th September. The resource supports early literacy and STEM learning. This resource can be viewed at <http://fuse.education.vic.gov.au/?ZY2GMP>. The resource is downloadable to any tablet/desktop/mobile device and contains 460 learning experiences matched to VEYLD. [More...](#)

Touch Develop and Hour of Code: [Touch Develop](#) is one of the tools featured in the [Victorian Schools and Apps Challenge](#). Touch Develop is an easy-to-use program which caters to a wide skill range, including those with no prior coding experience. With a large network of tutorials, Touch Develop can get you started on games and apps in no time. Touch Develop works on iOS, Android, Windows, Mac or Linux. [More...](#)

Digital Technologies made easy... Digital Technologies is a new subject and includes some material that may be unfamiliar to teachers. To support the implementation of the Digital Technologies curriculum, Education Services Australia and Australian Government Department of Education and Training have launched the NEW Digital Technologies Hub. [More...](#)

Virtual Learning News

DigiPubs Calendar - Virtual Learning and Classroom Opportunities: <http://www.digipubs.vic.edu.au/pubs/virtualllearning/>

Artlink to Archibald Virtual Event – a virtual celebration of the portrait in art.

As part of its Archibald Education Program, the Art Gallery of Ballarat is once again offering your students to participate in an online live workshop, supported by Gandel Philanthropy.

Australian Nuclear Science and Technology Organisation (ANSTO)

Discover the fascinating world of nuclear science from your classroom, and connect with ANSTO via 'Meet the Expert' free videoconferences.

- **12:30 – 3:30pm, Thursday 17 November:** Kate Brandis analyses bird feathers using nuclear techniques to track the

This is a great opportunity for students to participate in a special Archibald Prize event.

Each session will include:

- A virtual tour of the Archibald Prize at the Art Gallery of Ballarat with some of this year's highlights
- A portrait workshop with a professional artist.

- **2nd Nov, 1:30 – 2.30pm: Yrs 5 – 6 & Yrs 7 – 8**
- **3rd Nov, 1:30 – 2.30pm: Yrs 5 – 6 & Yrs 7 – 8**
- **9th Nov, 1:30 – 3.00pm: Yrs 9 – 11**
- **10th Nov, 1:30 – 3.00pm: Yrs 9 – 11**

All are repeat sessions.

- Bookings: Expressions of interest emailed to Michael Nichols, Education Officer, Art Gallery of Ballarat michaelnichols@ballarat.vic.gov.au with school, contact email, number of students, no. of koori students, no. of disadvantaged students
- Technical advice or assistance is available from Gary Schultz – schultz.gary.r@edumail.vic.gov.au
- Compulsory Teacher Pre-session Virtual meeting: Tentative: Friday October 28th – 9:00 – 9:30am

movement of waterbirds to create the first ever Feather Map of Australia.

- **12:30 – 3:30pm, 8 November:** Karina Meredith uses nuclear science to investigate groundwater supplies so that these resources can be used sustainably.
- **12:30 – 3:30pm, 24 November:** Kirrily Rule uses neutron diffraction to study superconductors for the next generation of electronics, data storage and transport.
- **12:30 – 3:30pm, 29 November:** Helen Maynard-Casely uses neutron diffraction to study the crystal structure of ices and how it behaves on other planets.

For more information and bookings, visit

www.ansto.gov.au/elearning.

Tuesday the 18th October(Primary) and Wednesday the 19th October(Secondary): Digital Technologies Online Support

Do you need support to unpack the new mandated Victorian Curriculum Learning Area of Digital Technologies and see how it fits into your classroom? Attend this free 1 hour professional learning workshop and get involved in a Community of Practice for ongoing support. Each session will run from 3:45-4:45pm more details and registration is via the following link:<http://lv2vl.global2.vic.edu.au/files/2016/10/Digital-Technologies-Online-Workshop-Flyer-2lglvah.pdf>

FREE Sydney Opera House – Virtual Learning Opportunities (via Polycom)

Infectious Diseases - Bacteria vs Humans, by Convergence Science Network & John Monash Science School

- The Convergence Science Network (@ConverSci) & John Monash Science School (@JohnMonash) are excited to announce the third Scientific Convergence and Innovation in Schools Cluster (SCISC) event on **Thursday 27th of October 2016 2pm-3pm**.
- [Register now](#) for this **FREE** event.

Microsoft EduCast brings together academic leaders, innovative

More information at <http://www.digipubs.vic.edu.au/pubs/virtualllearning/classroom-event-calendar>

- **Significant Australian Places: Sydney Opera House (Creative Learning), 24/25**
October http://www.sydneyoperahouse.com/whatson/cl16_significant_australian_places.aspx
- **Aboriginal Perspectives of Bennelong Point: Guwany Walama, 27/28 October**
http://www.sydneyoperahouse.com/whatson/cl16_guwanyi_walama.aspx

institutions, and pioneering educators in a monthly series for educators.

Register for this live webinar series at <http://www.pil-network.com/pd/VUWebinars>

ELECTROBOARD: Upcoming events from Electroboard (Polycom) : See [Electroboard website for Virtual Excursions](#).

DET Virtual Learning Senior Project Officer, Butch (Gary) Schultz and Virtual Learning Coaches support the development of Virtual Conferencing across Victoria.

Virtual Conference Centre (VCC) coaches are available to assist teachers and students to prepare for a virtual conference. They can assist with setting up hardware and software, and can share ideas for connecting with others. Coaching occurs online via discussion forums, email and web conferences, by phone or by site visits. For more information on Virtual Conference Coaches, see: [DET Virtual Conferencing Hub](#).

Professional Learning and Classroom Opportunities - see our [Professional Learning Calendar](#) for a full list of events

DET ICT Planning Workshops for School Leaders

These full-day workshops walk school leaders through developing a long-term ICT Plan.



- **20th Oct, Templestowe College:**
<http://tinyurl.com/j8vpngy>
- **26th Oct, St Helena SC:**
<http://tinyurl.com/gsx2uhu>



Adobe

- [Making the most of Adobe creativity software in the Classroom:](#)
 - 8th Nov (4pm – 6:30pm), St Mary's, Geelong. [Register](#)
 - 14th Nov (2:00pm – 4:30pm), Toorak College, Mt Eliza [Register](#)
- Deans Lecture Series, Associate Professor Michael Henderson
[The wicked problem of technologies in education: the need for](#)

- **28th Oct, Aurora School, Blackburn South:**
<http://tinyurl.com/guewoy6>
- **3rd Nov, Maffra SC:** <http://tinyurl.com/z58k2rb>
- **11th Nov, Koo Wee Rup SC:**
<http://tinyurl.com/hd44aay>
- **15th Nov, The Grange P-12 school:**
<http://tinyurl.com/gpf6lau>
- **16th Nov, Campbells Creek PS:**
<http://tinyurl.com/juvvh63>
- **25th Nov, Debney Meadows PS, Flemington:**
<http://tinyurl.com/zp9ldpc>
- **29th Nov, Colac SC, Colac:**
<http://tinyurl.com/zsrbutc>
- **1st Dec, Mt Erin SC, Frankston:**
<http://tinyurl.com/zjbsfl>

playful designs

- 18th October (6:30pm), Monash University, Menzies Lecture Theatre H3, 20 Chancellors Walk, Clayton Campus: [Register](#)
- [Making the Most of Creative Cloud in the Classroom](#)
 - Nov 16 (2pm to 6.30pm). [Register](#)
- [Adobe Generation Professional: Digital Creativity](#): 3 Oct – 18 Nov. [Register](#)
- [Adobe Generation Professional: Graphics & Illustration for the Classroom](#): 31 Oct – 6 Jan. [Register](#)
- More Adobe Education PL opportunities [here](#).

Office 365 Deep Dive (Southbank)- For Leaders and Teachers

- In this practical workshop teachers will discover how Office 365 offers school leaders, teachers and students the ability to collaborate through cloud based applications in a safe digital environment.
- 9:00am – 4:00pm, Mon 24th Oct: Microsoft Melbourne, Level 5/ 4 Freshwater Place , Freshwater Place, Southbank, VIC 3066
- [Register now](#)



ScopeIT Education

- **ScopeIT Education** provides a broad coding program to primary school students from beginner coding concepts to JavaScript, HTML, Robotics and 3D Printing.
- All equipment is supplied including laptops, internet connection, two instructors for every class and a 3D Printer.
- Courses are aligned to Australian curriculum outcomes.
- For more information contact Tracy Richardson via M:0402 002 014, E: tracy@scopeITeducation.com.au or visit www.scopeITeducation.com.au
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Microsoft 21st Century Learning Design Program(Southbank)- 2 Day Program

- Discover the whys and hows of implementing 21st Century Learning in your school through Microsoft Australia's 21st Century Learning Design program.
- 9:00am – 4:00pm, Tues 25th – Wed 26th October; Microsoft Office, Level 5/4 Freshwater Place Southbank, Melbourne, Victoria
- [Register now](#)



Junior Engineers – Fun computer programming for children

- Junior Engineers offers computer programming courses for Primary and Secondary school students, including:
 - o digital technologies
 - o commands and variables of elementary programming
 - o text-based and graphical input/output
 - o advanced programming techniques
- For more information and registration, please visit <http://www.jnengineers.com>, or contact Eric Jansen: 0419 154 917 or eric.jansen@jnengineers.com

Inclusion Online

- Free courses in Autism Spectrum Disorder, Dyslexia, Speech and Language, and Hearing Loss offer 20 hours of professional learning over 10 weeks. Register your interest in a course by contacting your region's Online Professional Learning Coordinator:
http://www.oltaustralia.net/courses_victoria.asp?stateid=9&schooltype=1



Digital Learning & Teaching Victoria

- Making the most of Creative Cloud in your classroom
 - o 27th Oct: <https://dltv.vic.edu.au/events/16f2f401-making-most-adobe-creative-cloud-your-classroom>
- For all DLTV Professional Learning events, visit <https://dltv.vic.edu.au/events>

Bastow delivers over 30 innovative, evidence-based and highly relevant courses that respond to the ever-evolving needs of teachers, principals and early childhood professionals at every stage of their career journey.



- To find out about Professional Learning opportunities visit <http://www.bastow.vic.edu.au/courses> or phone Bastow on (03) 8199 2900.



Registrations for the **2016 Go4IT work experience program** are now open. The week long program is designed to give girls who are interested in IT exposure to industry (eg. Westpac), soft skills including an interview skills workshop and hands on IT experience in coding computer software.

- Please save the following dates in your 2016 calendar: 24-28 October
- For more information and for students to apply please visit www.tcs.com/go4itanz



The Hour of Code is coming in December. Can you help us spread the word and grow our participation?

- [Sign up your classroom today](#) and get ready to do an Hour of Code with your class! Feel free to follow our easy [how-to guide](#). You can even do an Hour of Code without Internet or computers!



Bebras: Looking to use ICT in education? In addition to the biannual Bebras challenge, Bebras 365 is available as a free ICT resource throughout the year. Teachers and students have access to the Bebras task catalogues from previous years. We have configured them so that no student logins are required and that the system will give immediate feedback to students once they click on an answer. Why not give it a go today!

<http://www.bebas.edu.au/bebras365/>

CSIRO'S ICT in Schools



- CSIRO's ICT in Schools (ICTiS) program supports the delivery of Digital Technologies curriculum by bringing real-world technology practices into the classroom.
- Programs focus on coding, robotics, project management, networks, big data, communication or computational thinking – it's up to you!
- There is no cost to participate.
- For more information, contact Gill Lunniss (sis.vic@csiro.au) or visit <http://www.scientistsinschools.edu.au/ict/>.



PL OPPORTUNITY!: Asia Education Foundation – BRIDGE School Partnerships

- Applications now open for [ASEAN and Indonesia BRIDGE School Partnership programs](#).
- The Australia–Asia BRIDGE School Partnerships Project connects Australian teachers, students and school communities with their counterparts across the Asia region.
- **Applications close – 14 October**
- To learn more about BRIDGE programs visit: www.asiaeducation.edu.au/BRIDGE or contact BRIDGE Program Manager Aaron O'Shannessy on a.oshannessy@asialink.unimelb.edu.au

The Victorian Maths Challenge is now open and we are encouraging families with children in Years 5 to 8 to join in the fun.



Schools could support participation by:

- launching the Challenge in a Family Maths Night



Spring into TEAMP Day: a professional learning day for primary teachers and early years teachers of mathematics and English, conducted as part of National Literacy and Numeracy Week

- 9:30am - 3:30pm, Monday 10 October, 2016
- Australian Centre for the Moving Image, Federation Square, Flinders Street Melbourne

- advertising the Challenge in a school newsletter
- hosting after-school parent maths sessions
- using Challenge resources
- suggesting Challenge activities for students' homework.

For more information about the Challenge or to get started, see: www.education.vic.gov.au/vmc

Register to attend the event at the venue or *ONLINE* through Adobe Connect
www.springinto.teamp.vic.edu.au



Coursera

- **The Assessment and Teaching of 21st Century Skills MOOC** is now open. This year it is being taught by **Professor Patrick Griffin** in Coursera's new learning platform. Enrol in the course at <https://www.coursera.org/learn/atc21s>
- The Assessment and Teaching of 21st Century Skills MOOC Facebook group is still active and you are welcome to maintain your interest in the MOOC by joining this group. <https://www.facebook.com/groups/169934686537757/>

Conferences and Events



- **Teach Tech Play, 2017:** Ivanhoe Grammar School Melbourne on 3rd & 4th April, 2017. Designed by teachers for teachers, TeachTechPlay is a national learning community inspiring learning through empowerment and connection. More information is available via: <http://teachtechplay.com/conference/>

Resources



- **Taking Small BYTES:** Small Bytes – comprised of 100 cards – features 370 tips for educators about how technology can be used as part of a play-based learning program. Ideas include how to get kids exploring with a digital microscope, going on a virtual tour to the other side of the world, and how to connect with a favourite author. The cards build children's literacy and numeracy, and support the development of important broader skills such as curiosity, critical thinking, communication and

collaboration.

- This resource can be viewed at <http://fuse.education.vic.gov.au/?ZY2GMP>. The resource is downloadable to any tablet/desktop/mobile device and contains 460 learning experiences matched to VEYLDF



- **Digital Technologies Hub:** The Digital Technologies Hub has been commissioned by the Australian Government Department of Education and Training, and is managed by Education Services Australia. It has been designed to support the Australian Curriculum: Digital Technologies for Australian teachers, students and parents. The DT Hub includes: Curriculum resources, Links to professional learning, Challenges and Competitions, Step-by-step learning sequences, Advice for parents, 250+ resources linked to the Australian Curriculum: Digital Technologies, Calendar of Events. [More...](#)



- **CSER Digital Technologies Education website:** Access a range of Digital Technologies Programs for Australian teachers, including free, online CSER MOOC courses, free professional learning events, and the National Lending Library. [More...](#)



- **Wolfram Software Suite now available for secondary schools**
The Wolfram suite of products includes powerful learning tools across science, technology, engineering and mathematics (STEM) and is internationally recognised as the global industry standard. [More...](#)

Research, Reports and Opinion



- **A global measure of digital and ICT literacy skills:** Background paper prepared for the 2016 Global Education Monitoring Report. - *Digital and ICT literacy is considered an important competence for full participation in a knowledge economy and an information society. Consequently, interest at national and international level has emerged to explore the best ways of measuring the extent to which, and how equitably, competence in this area is being achieved. This paper reviews the definitions of digital and ICT literacy that have been adopted in cross-national studies, investigates the approaches to the assessment of digital and ICT literacy that have been employed in those studies and articulates the criteria that should guide the development of a global measure of digital and ICT literacy skills. Furthermore, the paper includes an appraisal of prospects for such a development.* ¹ [More...](#)



- **8 digital skills we must teach our children:** The social and economic impact of technology is widespread and accelerating. The speed and volume of information have increased exponentially. Experts are predicting that 90% of the entire population will be connected to the internet within 10 years. With the internet of things, the digital and physical worlds will soon be merged. These changes herald exciting possibilities. But they also create uncertainty. And our kids are at the centre of this dynamic change. [More...](#)

DET Mail

- **Is your family ready to take the Victorian Maths Challenge?:** Students in Years 5 to 8 are encouraged to join their families in the Victorian Maths Challenge, a series of engaging problems to explore and apply maths in the real world. Gavin Edwards and his children have already started the challenge, looking for ways they can learn and spend time together. *(School Update, 4th October)*
- **FISO in Focus: Parkdale Secondary College STEP program:** The Science, Technology, and Engineering Pathway (STEP) program was introduced at Parkdale Secondary College in 2014, and provides students with exciting opportunities to see how far science, technology, engineering and maths (STEM) subjects can take them. *(School Update, 4th October)*
- **Ada Lovelace Day: Girls in STEM event on Wednesday 12 October:** Girls in secondary school and their parents and families, are encouraged to participate in the event, which aims to raise awareness of the achievements of women in science, technology, engineering and maths (STEM), and inspire the next generation to pursue STEM careers. *(School Update, 4th October)*
- **Education in Games Summit** Schools are invited to attend the Education in Games Summit on Monday 7 November at ACMI, Federation Square, as part of Melbourne International Games Week. *(School Update, 13th September)*
- **Victoria's STEM education plan launched** A quantum computing program with NASA, a new Victorian Maths Challenge, teacher training and online learning tools were among the key initiatives announced as part of the *STEM in the Education State* plan launched at Scienceworks this week.. *(School Update, 23rd August)*

Please feel free to [pass this on and contact me on brown.jillian.k@edumail.vic.gov.au](mailto:brown.jillian.k@edumail.vic.gov.au) if you have something you wish to share.

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