



AISWA ICT Study Tour

San Francisco & ISTE: Denver, USA

20 – 30 June 2016



Association of Independent Schools
of Western Australia

www.ais.wa.edu.au

Personal Information

My Details

Name:

DOB:

Address:

Mobile:

Email:

US Phone:

US Hotels:	Hotel G San Francisco	Magnolia Hotel Denver
	386 Geary St San Francisco, CA 94102	818 17th St Denver, CO 80202

Passport No:

Exp:

ISTE Reg No:

School/Office Information

School Name:

Address:

Phone:

Contact:

Emergency Information

Contact:

Mobile:

Email:

Welcome

This booklet is intended as a reflective narrative of learning experiences from delegates on the 2016 Association of Independent Schools of Western Australia (AISWA) ICT Study Tour.

The ICT Study Tour provides an insight into the impact of digital technology on the evolving nature of schooling and teaching. In particular, current research is explored to address the profound impact of developments such as schools' normalised use of the digital, BYOT, the move to a more collaborative mode of teaching and the shift to a networked operational paradigm.

This booklet provides background reading and insights about the schools and businesses we are visiting, including information about some of the wonderful ICT and curriculum initiatives developed at the schools. It is also intended as a 'personal notebook' for delegates to plan and formulate ideas about key topics of information you wish to gather. It will act as a point of reference for any questions you may ask when on the tour. Indeed all schools we are visiting, view the AISWA study tour as an opportunity for an exchange ideas and to learn from one another through a rich and vibrant discourse.

The booklet also contains valuable ISTE information which will act as a guide and assist conference planning, including Keynotes, program highlights and Expo essentials.

Throughout the tour, delegates will engage with schools that demonstrate exemplary use of technology, this will provide a unique opportunity for delegates to further develop personal and professional awareness of current best practice in international ICT education programs.

We hope the tour is an amazing experience for all delegates.

Peter, Jan and Meika
AISWA ICT Study Tour Team

Contents

Essential Information	1
San Francisco.....	2
Denver.....	2
Study Tour Social Media.....	3
Itinerary	4
ISTE 2016 Highlights	6
Tour Activities and Reflections	8
20 June: The Urban School, Academy of Sciences & Brightbytes.....	8
21 June: Google & The Nueva School	20
22 June: Castilleja School & Stanford University	28
23 June: Menlo School	36
24 June: Microsoft.....	40
25 June: Travel to Denver	44
26 June: ISTE Pre-Conference Activities, Registration & Keynote	46
27 June: ISTE Day 1 Sessions	50
28 June: ISTE Day 2 Sessions	54
29 June: ISTE Day 3 Sessions & Closing Keynotes	58
30 June: Tour Ends, Checkout	62
Tour Contacts.....	65
Delegates	66
AISWA Staff	67
Exhibitor and Contacts Directory	68
General Tour Notes	85

Essential Information

The 2016 AISWA ICT study tour to the USA commences on 20 June in San Francisco, California. Delegates will undertake various professional learning opportunities and attend educational briefings as per the itinerary that follows. On 25 June we travel to Denver for the 2016 ISTE Conference held at the Colorado Convention Centre. The tour concludes on 29 June and delegates should check out from their hotel room on 30 June.

Tour accommodation, the domestic flight to Denver, transport to tour activities, tour/PL fees, breakfasts, lunches and a hosted dinner has been arranged by AISWA. Delegates should have arranged their own international flights, travel insurance, visa waiver (ESTA) and ISTE conference registration plus any pre or post tour accommodation.

In Case of Emergency

The US Emergency number is 911

Delegates should ensure they have provided AISWA with all emergency contact information and advised of any medical conditions.

AISWA staff can be contacted on +61 439 947 026 or +61 447 917 332. A US contact number will also be provided. AISWA US Number: _____

Spending Money and Currency Exchange

Make sure you have organised allowances for any evening meals not provided and pre/post tour transfers.

Exchange offices with favorable rates are scattered all over San Francisco. Banks also offer good rates and there are several near our Denver accommodation. The worst rate of exchange is at airports. There are several ATMS within walking distance from both of our hotels.

Dress

We ask that you dress in smart-casual attire when visiting schools and briefings, advice on weather conditions has been provided in the essential information for each city.

Electricity

Sockets are 'Type B' according to standards. Take an adapter with you and you may need a converter too as voltage is 110-120 V.

Safety

Delegates are responsible for their own safety and security at all times. Please use in-room hotel safes and exercise caution where necessary. Delegates should arrange their own travel insurance.

Tipping

Tipping is a practiced social custom in the US and is by definition voluntary. However, it is customary to leave 15-20% for meals. In taxis, it is OK to leave 15% or \$1-2, whichever is higher. For bellmen, leave \$1 per bag. For housekeepers leave tips on dressers, about \$1-2 per day. AISWA will cover the gratuity for any pre-arranged group transfers and meals.

Wi-Fi

Complimentary Wi-Fi is available at both of our hotels. ISTE provides free wireless internet in meeting rooms and public spaces (except the expo hall), please check the ISTE website for more information about connecting to their network.

San Francisco

Time Zone GMT -7 hours (DST): 15 hours behind Perth

Weather

The average summer temperature is about 22°C and it can reach the 8°C overnight. By 3pm it cools significantly as there is usually a west wind of 40 – 50kmph. San Francisco is known for its micro-climates and temperatures can differ greatly over a short distance, so make sure you dress in layers.

Hotel Details

Hotel G 386 Geary St, San Francisco, California 94102
 +1 877-828-4478

Denver

Time Zone GMT -6 hours (DST): 14 hours behind Perth

Weather

Denver is sunny all year-round with over 300 days of sunshine annually on average. Bring your sunscreen, sunglasses and hat because at this elevation, the sun can be quite strong. Summers are hot and dry, but nights cool off considerably. During June, there also tend to be thunderstorms during the afternoons almost every day.

High Altitude Tips: www.denver.org/about-denver/facts-info/high-altitude-tips/

Hotel Details

Magnolia Hotel 818 17th St Denver, Colorado 80202
 +1 303-607-9000

Study Tour Social Media

Collaborative Blog

www.aiswaict.com

During the course of the tour we ask that delegates contribute to an AISWA ICT Study Tour blog.

This blog is intended as a reflective narrative of our group's learning experiences during the tour. Feel free to provide the URL to your school's leadership group, fellow teachers, or even your family and friends to keep track of our journey in the USA. A link to the blog is also published in the public area of the AISWA website.

You will be sent an invitation to contribute to the blog which is hosted on WordPress. You can either sign - up for a new account or use an existing one and upload from your laptop, tablet or smart phone device (apps available). Alternatively, you can email your posts and photos to mbirch@ais.wa.edu.au for upload.

As an author you can create, edit, publish, and delete your own posts, as well as upload files and images. Please ensure any large media you plan to upload has been reduced, too.

Tour App

AISWA has created a Team Meet 'Team App' for tour delegates. It includes an easy to access calendar of events as well as photo and document uploads, chat and quick links. Download Team App on your mobile device and then search to join 'AISWA ICT Study Tour'. Although formal discussion is encouraged, delegates are welcome to use the chat facility to contact AISWA staff and to arrange to meet with other delegates at the ISTE conference, dinners or other social activities.

Do you Tweet?

If you have a Twitter account post your photos, reflections and shared blog posts with the hashtags [#AISWAICT](#) & [#AISWA](#), as well as tagging us [@IndSchoolsWA](#).

Photography

It is customary for AISWA to take photos and video of participants whilst on study tours to use in various publications including our blog, newsletters, the AISWA website/Bulletin and in future tour materials. Please see Meika Birch if you do not wish for your photo to be taken or used for this purpose. Please refer to the AISWA privacy statement for more information. Copies can be made available to you upon request.

Itinerary

Monday 20 June - Tour Begins

- 9:00am** Briefing at Hotel G, San Francisco (meet at Board Room then depart with group)
- 10:30am** The Urban School
- 12:00pm** Lunch in Golden Gate Park/free time
- 2:00pm** Academy of Sciences – Science Action Club
- 4:00pm** Brightbytes presentation
- Evening** Free time, arrange own dinner

Tuesday 21 June

- 8:00am** Transport departs Hotel, meet in foyer
- 9:30am** Google - Education Team
- 12:00pm - 1:30pm** Lunch at Google Café, free time to explore Googleplex
- 2:00pm** Nueva School
- 4:00pm** Return to Hotel (*arrive approx. 5:30pm*)
- *Optional Activity:** Library Mix
- Evening** Free time, arrange own dinner

Wednesday 22 June

- 8:30am** Transport departs Hotel, meet in foyer
- 9:30am** Castilleja School
- 12:00pm** Hosted lunch at Stanford University, free time to explore campus
- 2:00pm** Stanford University – Online High School and International Summer Institutes
- 4:00pm** Return to Hotel (*arrive approx. 5:30pm*)
- Evening** Free time, arrange own dinner

Thursday 23 June

- 8:00am** Transport departs Hotel, meet in foyer
- 9:30am** Menlo School
- 1:00pm** Lunch at Cioppino's on Fisherman's Warf
- Afternoon/Evening** Free time, arrange own dinner

Friday 24 June

- 8:00am** Transport departs Hotel, meet in foyer
- 9:30am** Microsoft Technology Centre
- 3:00pm** Return to Hotel (*arrive approx. 4:30pm*)

Evening Free time, arrange own dinner

Saturday 25 June

AM: Free Time

12:00pm Meet in foyer - check-out from Hotel G (settle personal bill) and board transport to airport (Lunch on bus)

2:40pm Depart San Francisco Flight WN5905, Southwest Airways (group check-in)

6:15pm Arrive Denver - Shuttle bus transfer from Airport to Hotel

7:00pm Check-in at Magnolia Hotel

Evening Free time, arrange own dinner

Sunday 26 June



Conference 26 June – 29 June

Pre-ordered lunch boxes provided by AISWA, pick-up in foyer between 8am and 8:30am each day

7:00am – 7:00pm ISTE Registration Opens

All day Free time or pre Conference sessions (AISWA Staff unavailable)

4:30pm Meet near venue for pre-ISTE catch-up, location TBA

5:45pm ISTE Opening Keynote

8:00pm ISTE Welcome Celebration

Evening Free time, arrange own dinner

Monday 27 June

All day ISTE Sessions and Workshops (AISWA to advise of recommended events and group catch-ups)

6:00pm AISWA Staff Catch-up (available in lobby for assistance)

Evening Free time, arrange own dinner ***Optional Activity: Baseball**

Tuesday 28 June

All day ISTE Sessions and Workshops

7:30pm AISWA hosted dinner at Range restaurant

Wednesday 29 June

All day ISTE Sessions and Workshops

2:45pm – 4:00pm ISTE Closing Keynote

Evening Free time, arrange own dinner

Thursday 30 June - Tour Ends

9:00am Optional informal catch-up with group, TBA

12:00am Checkout

ISTE 2016 Highlights

All ISTE Conference Information is available from their website www.isteconference.org/2016

Delegates should make their own way to the conference venue via either the ISTE provided shuttle service, public transport, or by walking (5 mins max).

With more than 900 sessions across a wide range of topics, there are many ways to tailor your ISTE 2016 experience to your interests. Use their program guide:

conference.iste.org/2016/program/program_guide.php to help you find the sessions that best fit your needs.

Sunday, June 26 – Pre Conference and Conference Opens

7am - 6pm	Registration open
8:30am – 3:30pm	Preconference workshops (varied start times & durations) and invitational activities \$
8:30am – 4:00pm	ISTE Learning Academy: iTools for Educators \$
12:30 - 4pm	Interactive Playgrounds: Computational Thinking/Computer Science, and Maker
12:30 - 5pm	Opening Conference Sessions
3 - 5pm	Networking and Connecting Activities
5:45 - 7pm	Opening keynote
7 - 8:45pm	Welcome Celebration, featuring Poster Sessions: Global Collaboration

Monday, June 27

8 - 11:30am	Interactive Playgrounds: Digital Storytelling, STEM, and Digital Librarians
8 - 10am	Poster Sessions: Digital Age Teaching and Learning
8:30 - 9:30am	Concurrent sessions
8:30am - 7:30pm	Workshops (varied start times and durations) \$
9:30am - 5:30pm	Expo Hall open
11am - noon	Concurrent sessions
11am - 1pm	Poster Sessions: Collaboration and Digital Citizenship
12:30 - 4pm	Interactive Playgrounds: Creativity, Early Learning, and Mobile Learning
12:45 - 1:45pm	Concurrent sessions
2 - 4pm	Poster Sessions: Robotics, Programming and Maker
2:30 - 3:30pm	Concurrent sessions
4:15 - 5:15pm	Concurrent sessions
5:30 - 7:30pm	ISTE Campfires

Tuesday, June 28

8:30am - 7:30pm	Workshops (varied start times and durations) \$
9 - 10:15am	Keynote session
9:30am - 1pm	Interactive Playgrounds: Teacher Educators, STEAMPunk, and Ed Tech Coaches
9:30am - 5pm	Expo Hall open
10:30am - 12:30 pm	Poster Sessions: STEM/STEAM
10:45 - 11:45am	Concurrent sessions
12:30 - 1:30pm	Concurrent sessions
1:15 - 3:15pm	Poster Sessions: Early Childhood and Digital Storytelling
2 - 5:30pm	Interactive Playgrounds: Games and Virtual Environments, Inclusive Learning, and Google for Education
2:15 - 3:15pm	Concurrent sessions
4 - 5pm	Concurrent sessions
4 - 6pm	Poster Sessions: Professional Learning
5:15 - 7:15pm	ISTE Campfires

Wednesday, June 29

8 - 10am	Poster Sessions: Project Based Learning
8:30 - 9:30am	Concurrent sessions
8:30 - 11:30am	Workshops \$
9am - 1pm	Interactive Playgrounds: Global Learning, Innovative Education, and iPlayground
9:30am - 2:30pm	Expo Hall open
10:15 - 11:15am	Concurrent sessions
11am - 1pm	Poster Sessions: Innovative Learning
11:45am - 12:45pm	Concurrent sessions
1:15 - 2:15pm	Concurrent sessions
2:45 - 4pm	Closing keynote and 2017 preview

\$ = Preregistration and additional payment required

Tour Activities and Reflections

20 June: The Urban School, Academy of Sciences & Brightbytes

School Visit: The Urban School

The Urban School of San Francisco is a private high school located adjacent to Golden Gate Park in San Francisco, California. The school was founded in 1966 by a group of Bay Area parents.

Urban is a pioneer in fully integrating technology into academics. Their highly regarded 1:1 laptop program, first implemented in 2000, has attracted the attention of educators and scholars from around the world, including visitors from China, Russia, South Korea, Canada, Australia, Singapore and more. Schools across the nation continue to view Urban's 1:1 program as successful model to emulate.

Urban's spirit of technological innovation is still alive and well today. The school is currently creating and implementing 21st century models of education in independent schools. Urban is also the home to a makerspace and lab, with all courses part of the UrbanX Labs program.

www.theurbanschool.org

Urban X Labs

UrbanX Labs is Urban School's integrated and interdisciplinary approach to the design, technology and engineering educational needs of the 21st century. With offerings like electronics and robotics, engineering, advanced coding, industrial design and more, Urban is teaching students how to develop, design and build their ideas. UrbanX courses teach students the fundamentals of discovery, innovation, creativity and problem-solving, all deeply rooted in Urban's highly academic and supportive teaching environment. Courses and co-curricular opportunities under UrbanX Labs include: Applied Physics: Motion & Machines, Electronics & Robotics; Industrial Design; UrbanX Labs: Design, Research and Development.

vimeo.com/157245521

The Bay Area BlendEd Consortium

Bay Area BlendEd was founded in Fall 2013 by The Urban School, The Athenian School, The College Preparatory School, Lick-Wilmerding High School and Marin Academy in order to bring their students a new level of engaging curriculum that takes advantage of the geography, talent and culture of the Bay Area. Courses offered by the BlendEd Consortium combine face-to-face and online instruction and help students prepare for the changing methods of instruction and communication they will see in college and in the workforce, while preserving the core relational culture and values that are at the heart of Urban's and their partner schools' educational missions.

www.blendedconsortium.org

Californian Academy of Sciences

The California Academy of Sciences is a renowned scientific and educational institution dedicated to exploring, explaining, and sustaining life on Earth. Based in San Francisco's Golden Gate Park, it is home to a world-class aquarium, planetarium, and natural history museum—all under one living roof.

The California Academy of Sciences welcomes all educators, whether you teach in a formal classroom, in an informal setting, or in the home. The Academy's Science Action Club (SAC) engages middle school youth in authentic, hands-on science through partnerships with local afterschool providers.

Science Action Club

The Science Action Club (SAC) is a high impact STEM learning program that provides professional development and teaching kits to middle school afterschool providers. SAC features environmental science curriculum modules that spark interest in scientific exploration and empower youth to conduct active research as citizen scientists. Through games, projects, and hands-on activities, youth in SAC explore the local environment and document their discoveries to better understand and protect our planet.

In addition, Science Action Club also provides a comprehensive science and nature learning experience designed for middle school youth in out-of-school time. The full suite of resources includes easy-to-read science curriculum guides, supplies for hands-on nature investigations, custom-configured digital learning tools, and professional development training that enables afterschool providers to offer Science Action Club in their local communities.

Teaching Resources

The Academy offers a wide breadth of resources that can impact your teaching from afar. Whether you are looking for kits of classroom materials, lesson plans, science videos, distance learning programs, or full courses, the Academy has science teaching resources galore. Looking for ideas to spice up your science teaching? Their activity database features full-period lessons to integrate into your normal curriculum, activities to focus your field trip, or ideas for extending the museum visit into the classroom. The Academy also invites groups of students to interact in a live connection with Academy experts, animals, and collections over the internet!

Brightbytes Presentation

BrightBytes gathers ideas from the best experts in the world and creates evidence-based frameworks that are combined with world-class research and analysis from your school or region, giving you the tools to understand and quickly improve student learning outcomes.

Clarity Platform

Clarity is an online software platform that saves you time and money by measuring whether technology programs are impacting student learning, and then delivering easy-to-use, customized technology plans to you. Clarity's proprietary CASE framework outlines the essential factors that schools need to improve learning through the use of technology

This is a learning analytics tool that collects data from administrators, teachers, and students in four areas (classroom, access, skills and environment). The results help you measure and drive technology decisions and investments, position your students for success with technology in the 21st Century, measure the impact of technology spending on student learning, and save money on technology projects and professional development.'

21 June: Google & The Nueva School

Google Education Team Presentation

Google for Education is about learning for everyone, anywhere. Work, share, and learn together through affordable devices and familiar platforms - for schools, universities, districts, and entire countries. The Google Education Team's work focuses on three areas:

- Making learning magical for students
- Empowering innovative communities
- Building a foundation of technology and access

Google invests heavily in education initiatives and partnerships through their products, programs, and tools. School solutions include Google Apps for Education, Chromebooks, Nexus tablets, and a wide range of apps, books, and videos for learning. Google also provides and facilitates hundreds of programs, scholarships, and competitions for students and educators.

Possible discussion topics for the day include:

- Google Classroom
- Chrome, Apps and Android.
- Collaboration using the cloud
- Gamification and Project Based Learning
- Technology Futures – Google Research
- Google Teacher Academy
- Google APIs and Technologies in education
- Google RISE awards
- Google cardboard
- Google STEM initiatives

School Visit: The Nueva School

"We want sparks to fly out of our student's brains in every direction!"

Since 1967, The Nueva School has taught high-ability students to learn by doing and learn by caring. To step into Nueva and enter a classroom is to witness a dynamic, vibrant environment here students explore and experiment.

Students are encouraged to realize their imaginative designs by creating art, writing their own original plays, composing music, writing lyrics, investigating disappearing gingerbread men, devising original science experiments, building educational tree houses for younger students, and soldering original LED lamp designs. At Nueva, creativity occurs in mathematics - as in art, writing, and engineering. We teach students to think about not just getting the correct answer but finding multiple ways to solve a problem.

Design Thinking at Nueva

"Design Thinking is a collection of techniques and mindsets that enable people to identify underlying needs through empathy, to harness and develop their ability to generate ideas, and to actively seek feedback." - Kim Saxe, Director, Innovation Lab

At Nueva's world - renowned Innovation Lab (I-Lab), created in partnership with IDEO and Stanford's d.school, hundreds of visitors from around the world have asked, *"How can we implement Design Thinking in our schools?"*

For nine years, Nueva has pioneered the teaching of design thinking to students. the I-Lab supports innovative thinking and creates the opportunity for students to become inventors, not just consumers. The program is the first preK-8 engineering and design - thinking program of its kind, and was established to better understand how students develop the attitudes and skills to become creative thinkers and problem solvers.

dschool.stanford.edu/dgift

Thinking like a designer can transform the way organisations develop products, services,

processes, and strategy. This approach, which IDEO calls design thinking, brings together what is desirable from a human point of view with what is technologically feasible and economically viable. It also allows people who aren't trained as designers to use creative tools to address a vast range of challenges.

www.ideo.com/about/#kDMlkb4MED0oe29S.99

Contact: Diane Rosenberg, Head of School

22 June: Castilleja School & Stanford University

School visit: Castilleja School

Educating Girls for the 21st Century

The only independent girls' school for grades 6-12 in the Bay Area, Castilleja prepares young women to be self-directed learners and independent leaders. Experienced Castilleja teachers, coaches and advisors tailor classroom instruction and co-curricular programming to the unique needs of girls, creating an incomparable environment for girls to thrive.

In our classrooms, faculty teach how girls learn best: through experiential, hands-on learning and through small group discussions that build lasting connections between students and teachers. Simply put, our teachers understand girls. The all-girls setting encourages students to take risks in the classroom and actively participate, and as a result their self-confidence expressing their own ideas flourishes.

A FabLab School

A FabLab is a low-cost digital workshop equipped with laser-cutters, routers, 3D scanners, 3D milling machines, and programming tools, where you can "make almost anything." There are over 150 FabLabs around the world, open to local inventors, small businesses, and garage entrepreneurs.

The FabLab concept was created by Prof. Neil Gershenfeld at MIT. The FabLab@School, created by Prof. Paulo Blikstein at Stanford University is a new type of digital fabrication lab especially designed for schools and children.

The Bourn Idea Lab

The third FabLab@School came about with a 2-year agreement for lab implementation, professional development, and research with the Castilleja School.. The Bourn Idea Lab (named in honor of Castilleja's Robotics mentor Doug Bourn) is generously funded by Castilleja School, the E.E. Ford Foundation, and the Doug Bourn Memorial Fund.

The Bourn Idea Lab is the Castilleja school's maker lab and digital fabrication studio, where girls (and teachers!) come to tinker, build, and prototype. The lab has laser cutter, a 3D printer, sewing machine, programmable microcontrollers, vacuum former, vinyl cutter, desktop CNC mill, and assorted hand tools. Oh, and lots and lots of cardboard and other prototyping materials, of course.

Also the home of Castilleja's robotics programs, including their first Robotics team, Team 1700 Gatorbotics, and first Lego League teams. They are a member of the FabLab@School network, a project of Professor Paulo Blikstein's Transformative Learning Technologies Lab at Stanford University.

Contact: Andrew Johnson, Senior Technology Manager

Stanford University Visit and Presentation

Stanford University is located in Silicon Valley and is one of the world's leading teaching and research universities, dedicated to finding solutions to big challenges and to preparing students for leadership in a complex world. The research budget is around \$1.33 billion dollars!

Stanford welcomes more than 150 000 visitors annually, as well as about 16 000 students and over 2000 faculty members on campus. Nearly all undergraduates live on campus. The 125 year anniversary has just been celebrated.

Stanford Online High School

The mission is to create a worldwide learning community of diverse, intellectually passionate students and teachers. Vibrant seminars and rigorous curriculum challenges prompt students to reason analytically, think creatively and argue critically. The school's supportive environment fosters independence, strength of character and a lifelong pursuit of knowledge.

Students are gifted students, intellectual risk takers, and those who are engaged in significant pursuits beyond the classroom. They attend class from farms and skyscrapers; boats and airplanes; military bases and embassies; bedrooms and kitchen tables around the globe. Students are placed by ability not age or grade level.

Average class size is 15. Students meet twice a week in a college-style schedule of engaging, real-time discussions. Full-time, part-time and single-course options accommodate the global student community's varied needs and interests.

Stanford International Summer Institutes

The Stanford Pre-Collegiate Summer Institutes are 3-4 week residential programs for academically talented and motivated high school students, enriching and accelerating their academic pursuits and meeting other students who share their interests and abilities. Academic and social aspects of the program are tightly integrated.

Participants live in supervised Stanford housing and are taught by instructors who are experts in their fields and passionate about teaching. Undergraduate and graduate student mentors also assist. The Summer Institutes provide a taste of college life.

Students engage in intensive study in a single course and are introduced to topics not typically presented at school in areas of arts and humanities, business, computer science, engineering, legal studies, mathematics, social science, writing, physical and biological science.

23 June: Menlo School

School visit: Menlo School

Menlo School has its origins as a military school, the William Warren School, begun in 1915 with an initial enrollment of 13 boys.

In 1924, Mr. Warren, the founding headmaster, sold the school to a group of interested parents who sought a fresh identity: thus the Menlo School for boys was incorporated and the military program dropped. Three years later, in 1927, Menlo became a non-profit institution governed by a newly formed board of trustees. Around that time a two-year college was established as an integral part of the School. In 1949 the name was officially changed to Menlo School and Menlo College.

www.menloschool.org

Upper School Applied Science & Engineering

Design. Tinker. Innovate.

The Applied Science and Engineering department at Menlo School seeks to develop a deep understanding of core skills and knowledge necessary to be successful in the fields of experimental science and engineering. The courses in this department offer students the opportunity to do real world science and engineering. The predominant mode of learning is by doing. The courses are hands-on and designed to tap into the students' passions. Students will apply and build upon knowledge learned in their standard math and science classes in the context of exciting and innovative projects. Along the way students will learn essential and practical new skills used in today's Silicon Valley. Students will learn design, optimization, and tinkering skills. Students work with cutting edge tools like micro controllers, CAD, robotics equipment, laser cutters, and 3D printers. The courses employ an iterative method of learning while developing curiosity and building critical thinking skills along the way.

Menlo College Distinctive Programs

Menlo's Bridge to Engineering, Science and Technology (M-BEST): M-BEST was created to encourage girls' interest in STEM fields and included workshops with hands-on activities, guest speakers, internships and leadership opportunities. The M-BEST program serves both Middle and Upper School students, developing a community of learners and providing a network of professional role models, teachers and students to strive for greater gender balance in STEM fields.

The Global Classroom: Lessons that span across oceans: teachers and students from around the world learn together.

Collaborative Lessons: In both middle and upper school, Menlo students collaborate with students from our partner schools across the globe through shared lessons and activities.

Contact: Eric Spross, Director of Technology

24 June: Microsoft

Microsoft Executive Briefing

Suggested Topics of Discussion

- Microsoft's Education & Technology Roadmap – the next 3 years. Where to for schools after Office 365?
- Microsoft's view, direction and programs in STEAM (Science, Technology, Engineering, Arts & Maths)
- Microsoft's view on current ICT literacy standards - students, teachers, schools, education sector, regions and the general demographic
- Predictive Learning Analytics
- Education software licensing model from Microsoft
- Latest collaboration and content storage tools
- Trends regarding the impact of Microsoft technology on the actual physical requirements of the learning spaces (as it impacts refurbishment/capital development ideas)
- In general, tools focused specifically for low-mid tech savvy teachers and how to get the late adapters, incorporating new tools and approaches to their teaching
- Device configuration and application management
- The future of educational gaming and computational thinking Kodu, Minecraft Edu and Project Spark
- Educational App development - Is Touch Develop just the start?
- Future enhancements for OneNote
- Initiatives for 'Teacher Efficiency'
- Where is Microsoft going in the Primary school space\curriculum?
- How schools worldwide are using the 'Imagine Academy'
- Whole school App licensing and deployment
- 'AppSmash' exemplars on how to use a variety of great educational Apps to create and publish digital stories student portfolios.
- App Store and 'Back to School' - Can it get better?

Contacts: Sheldon Jones, Account Executive Education WA and SA

26 June: ISTE Pre-Conference Activities, Registration & Keynote

Opening Key Note: Michio Kaku

Michio Kaku, Ph.D., is a futurist and theoretical physicist who has popularized science for all audiences. The Ivy League scholar's presentations include fascinating subjects like the science of dreams (how our prefrontal cortexes disengage, which suppresses the fact-checking component of our consciousness), what makes a super genius, the evolution of intelligence, and the two greatest scientific mysteries. He blogs regularly at Dr. Kaku's Universe, sharing his thoughts on everything from storing the human soul on a disk to why Hollywood needs to make better aliens.

Kaku has written multiple New York Times best sellers, including his latest, *The Future of the Mind* (2014), in which he illustrates stunning breakthroughs in neuroscience and how they are unraveling the mysteries of the human brain. He has hosted several TV specials for the BBC, the Discovery Channel, the History Channel and the Science Channel. Kaku was also one of the subjects of the award-winning documentary, "Me & Isaac Newton." He hosts the weekly one-hour radio program "Explorations," produced by the Pacifica Foundation's WBAI in New York. In April 2006, Kaku began broadcasting "Science Fantastic," which is syndicated by Talk Radio Network and remains the only nationally syndicated science radio program. Some may recognize him from his recent appearance in Turbo Tax commercials.

27 June: ISTE Day 1 Sessions

ISTE Expo Hall

The ISTE Conference & Expo is home to one of the largest and most interactive ed tech expos in the world! More than 5,000 industry representatives are on hand to answer your questions and demonstrate how their products and services are revolutionizing education technology.

Browse our interactive floor plan to plan your expo hall experience:

conference.iste.org/2016/exhibitors/floorplan.php

At the expo, you can:

- View live demonstrations.
- Attend on-floor presentations.
- Put your hands on some of the latest learning and teaching technologies.
- Interact with classroom-style setups and technology scenarios.
- Try the latest ed tech solutions before making purchasing decisions.

My ISTE Sessions

Time	Name	Location	Type

28 June: ISTE Day 2 Sessions

Tuesday Keynote: Ruha Benjamin

Ruha Benjamin is an assistant professor in the Department of African American Studies at Princeton University, where she specializes in the interdisciplinary study of science, medicine, biotechnology, race-ethnicity and gender, health, and biopolitics. Her driving question is, "How can we harness science and technology for greater equality?"

Her popular courses cover topics like "Race Is Socially Constructed: Now What?" and "Black to the Future: Science, Fiction and Society," and she's not afraid to tackle talks like "Women in Technology: Playing the Game or Hacking the System" and "Black Death ... and Regeneration: An Ethnography of the Future" with public audiences. Her Black to the Future course pays particular attention to the way race functions as a social technology that produces parallel universes where people experience radically different and unequal versions of the world.

She is actively engaged in community initiatives that investigate the social impact and meaning of new biotechnologies, and she blogs about the broader questions of innovation and citizen science. She has been awarded fellowships by the American Council of Learned Societies; the Harvard Kennedy School of Government's Science, Technology and Society Program; the National Science Foundation; and the Ford Foundation.

My ISTE Sessions

Time	Name	Location	Type

29 June: ISTE Day 3 Sessions & Closing Keynotes

Closing Keynote: Michelle Cordy

Michelle Cordy is a third grade teacher in London, Ontario, in the Thames Valley District, who calls herself "a teacher on an urgent quest." Armed with 1:1 tablets for her students, she is actively engaged in hacking her own classroom — which she defines as devising ingenious solutions and overcoming obstacles — and sharing the results with her professional colleagues.

Belonging, hands-on competency and elaboration are watchwords of Cordy's approach. The result: One of her students undergoing cancer treatment was able to continue classroom participation remotely. She documents her journey on her Hack the Classroom blog.

Cordy's focus is on mathematics education, technology integration and the social aspects of the internet. She engages in classroom-based research with partners from academic institutions as well as with industry partners. She began teaching in 2001, and has taught grades 2, 3, 4, 7 and 8 during her career. She has also taught in college and university teacher education programs.

Cordy is an Apple Distinguished Educator, a Google Certified Teacher and holds an M.Ed. in mathematics and science education.

My ISTE Sessions

Time	Name	Location	Type

Delegates

Name	Position	School	Email
Christine McInnes	Year 3/4 teacher	Lance Holt School	chris@lanceholtschool.wa.edu.au
Hiep Nguyen	Year 7 Team Leader & eLearning Facilitator	John Septimus Roe Anglican Community School	hnguyen@jsracs.wa.edu.au
Ian Anthony	Business Manager	Iona Presentation College	ianthony@iona.wa.edu.au
Jennifer George	Mathematics Teacher	Carmel School	jennifer.george@carmel.wa.edu.au
Jonathan Hughes	Year 4 Teacher and IT Manager	Carmel Adventist College Primary	jonathanhughes@adventist.org.au
Justin Hearn	Director: Technology	Australian Baptist Education Quinns Baptist College	jhearn@qbc.wa.edu.au
Kieran Bailey	Head of IT Services	Great Southern Grammar	kieran.bailey@gsg.wa.edu.au
Patricia Rodrigues	Principal	Serpentine-Jarrahdale Grammar School	prodrigues@sjgs.wa.edu.au
Reuchlin Teo	Chief Knowledge Officer	St Stephen's School	reuchlin.teo@ststephens.wa.edu.au
Richard Baird	Acting Principal	Great Southern Grammar	richard.baird@gsg.wa.edu.au
Rob Krueger	ICT Manager	Swan Valley Anglican Community School	rob.krueger@svacs.wa.edu.au
Steve Tsocas	Head of ICT Integration	All Saints' College	steven.tsocas@allsaints.wa.edu.au
Tina Russell	Head of Technology Integration	Penrhos College	russet@penrhos.wa.edu.au

AISWA Staff

Name	Position	Email	Phone
Peter Crosbie	Manager, Learning Technologies	pcrosbie@ais.wa.edu.au	+ 61 (0) 438 965 871
Jan Clarke	ICT Integration Consultant	jclarke@ais.wa.edu.au	+61 (0) 439 977 596
Meika Birch-Davis	Project Officer: ICT, Digital Media & Marketing	mbirch@ais.wa.edu.au	+61 (0) 447 917 332

Association of Independent Schools of Western Australia

3/41 Walters Drive Osborne Park WA 6017
PO Box 1817 Osborne Park DC WA 6916

Phone: 9441 1600

Email: reception@ais.wa.edu.au



Association of Independent Schools
of Western Australia

www.ais.wa.edu.au