<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10.30am</td>
<td>Welcome</td>
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<tr>
<td></td>
<td>Professor Jennelle Kyd</td>
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<td>Senior Deputy Vice-Chancellor and Provost</td>
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<tr>
<td>10.35am</td>
<td>Launch of Cisco/Swinburne Partnership</td>
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<td></td>
<td>Ken Boal, Vice President Cisco</td>
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<td>President-elect, B/HERT</td>
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<tr>
<td>10.45am</td>
<td>Round Table Objectives</td>
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<td></td>
<td>Martin Stewart-Weeks - Facilitator</td>
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<tr>
<td>10.50am</td>
<td>Attracting STEM Students; Retaining STEM Talent</td>
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<td></td>
<td>Dr Alan Finkel AO, Chancellor, Monash University</td>
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<tr>
<td>11.05am</td>
<td>STEM Inquiry: A Way of Learning and of Life</td>
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<td></td>
<td>Dr Pamela Gay</td>
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<td>Center for STEM Research Education and Outreach</td>
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<td></td>
<td>Southern Illinois University</td>
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<tr>
<td>11.20am</td>
<td>Discussion</td>
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<tr>
<td>12.00pm</td>
<td>Lunch</td>
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<tr>
<td>12.45pm</td>
<td>National Higher Education and Workforce Initiative (HEWI)</td>
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<td></td>
<td>Dr Brian Fitzgerald, CEO</td>
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<td></td>
<td>Business Higher Education Forum</td>
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<tr>
<td></td>
<td>(via Telepresence)</td>
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<tr>
<td>1.00pm</td>
<td>Discussion: Implications for Australia</td>
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<tr>
<td>1.30pm</td>
<td>Skills Security: Australia's 21st Century Challenge</td>
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<td></td>
<td>Professor Ian Chubb AC</td>
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<td>Chief Scientist of Australia</td>
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<tr>
<td>1.50pm</td>
<td>Discussion</td>
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<td>2.20pm</td>
<td>Close</td>
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<td></td>
<td>Professor Leon Sterling</td>
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<td>Pro Vice-Chancellor (Digital Frontiers)</td>
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**AGENDA**

**ROUNDTABLE OBJECTIVES**

B/HERT’s round table program is a forum for dialogue and engagement between universities and business to promote effective and productive working relationships between the sectors. The launch of the Cisco/Swinburne Partnership epitomises the model that will serve the nation well in tackling the key challenges facing universities and business.

The STEM Pipeline for the Digital Economy round table will draw upon high level expertise from business, industry and universities to think about practical ways to lift the profile and impact of a national effort to improve Australia’s capabilities in science, technology, engineering and maths (STEM). This is a topic that is critical to the national economy and our capacity to compete globally. Both the Australian business community and the higher education sector have expressed their concern about sharply declining participation rates in STEM study. This concern emanates from their clear understanding of the relationship between STEM and innovation on the one hand and productivity, jobs growth and a smart economy on the other. The recent release of the Chief Scientist’s report, Science, Technology, Engineering and Mathematics: Australia’s Future, provides a comprehensive overview of where Australia needs to position itself in order to be able to exploit our natural advantages and latent opportunities.

Keynote speakers Dr Alan Finkel AO and Dr Pamela Gay will illustrate the rising dominance of STEM skills across all occupations, all areas of study and increasingly as part of everyday living. These capabilities must be embedded throughout the educational curriculum as new smart technologies, industries and skills redesign the economic landscape. The Higher Education Workforce Initiative is a project borne out of necessity. Dr Brian Fitzgerald will discuss how American industry has come to the realisation that to be innovative and competitive requires a national strategy in order to develop a talent pipeline that is reliant on STEM. The Chief Scientist, Professor Ian Chubb AC has also called for a national strategy. Adopting and implementing this strategy urgently is a critical factor in shaping Australia’s future.

The report from this round table forms part of an important national conversation about building an innovative economy that will enable Australia to achieve much better alignment between education and a highly skilled 21st century workforce. B/HERT and its members recognise that to achieve these outcomes requires on-going dialogue and collaboration involving universities, industry and government.
As Vice President of Cisco Australia and New Zealand, Ken sets out a clear roadmap for our customers and partners to take advantage of market transitions, such as the Internet of Everything and cloud, increase productivity and create competitive advantage through the innovative use of technology.

On joining Cisco in 2004 Ken led the company’s public sector engagement with Australia’s federal, state and territory governments, defence, education and healthcare. This role was then expanded to include growth and development in the private sector.

Ken is committed to working with the higher education sector to enhance Australia’s role in the knowledge economy. He has also held a leadership position within Cisco’s primary education initiative, the Cisco Networking Academy, where he manages the team responsible for the delivery of an ICT training program that helps to improve the career and education opportunities for over 20,000 Australians and New Zealanders annually.

Ken holds a Bachelor of Electrical Engineering (Communication & Electronics) from the University of Queensland.

Dr Alan Finkel AO FTSE is Chancellor of Monash University and President of the Australian Academy of Technological Sciences and Engineering. He is co-founder and Chairman of Cosmos Magazine, the Chairman of the Australian Centre of Excellence for All-Sky Astrophysics and the Executive Chairman of Stile Education.

Alan was awarded his PhD in electrical engineering from Monash University and worked as a postdoctoral research fellow in neuroscience at the Australian National University. In 1983 he founded Axon Instruments, a California-based company that made precision scientific instruments used at pharmaceutical companies and universities for the discovery of new medicines. Subsequent to Axon being acquired, since 2006 Alan has enjoyed a varied business career that includes property development and a period in electric vehicle charge network provision.

Alan is passionate about educating the next generation. He established the Australian Course in Advanced Neuroscience to provide advanced training to early-career scientists and he leads a secondary school science program named STELR that is currently running in nearly 400 secondary schools around Australia.

Martin Stewart-Weeks is a strategic thinker and analyst, facilitator and a writer with 30 years’ experience spanning government, the “for purpose” or social sector and the corporate sector working at the intersection of public policy, public sector performance, technology and innovation.

He has held senior policy, management and advisory positions for Ministers and government agencies at the federal and state government level in Australia and New South Wales. In his work with the Internet Business Solutions Group (IBSG) at Cisco, Martin’s focus is primarily on the public sector.

Martin was a member of the Ministerial Task Force on Government 2.0 which reported to Finance Minister Lindsay Tanner and Special Minister of State Joe Ludwig in December 2009. He was also a member of the advisory committee on Government 2.0 in Victoria. He has recently been appointed to the Strategy and Innovation Council of the Federal Department of Human Services.

Martin holds a BA (Hons) in English from the University of York in the UK, a Graduate Diploma in Applied Economics from Canberra University and a Masters in Social Science and Policy from the University of New South Wales.

Dr Alan Finkel AO FTSE is Chancellor of Monash University and President of the Australian Academy of Technological Sciences and Engineering. He is co-founder and Chairman of Cosmos Magazine, the Chairman of the Australian Centre of Excellence for All-Sky Astrophysics and the Executive Chairman of Stile Education.

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Dr Pamela L. Gay is an astronomer, writer, and podcaster focused on using new media to engage people in science and technology. She is on the faculty at Southern Illinois University where she works in the Center for STEM Research, Education, and Outreach.

As the Principal Investigator of CosmoQuest.org, she works to engage people in both learning and doing science. She invites the public to join her and other NASA scientists as they map our Solar System in unprecedented detail through citizen science projects, and learn astronomy through media productions like Astronomy Cast. Through this weekly podcast, Gay and co-Host Fraser Cain, take you on a facts-based journey through our Cosmos, exploring not only what we know, but how we know it.

Brian K. Fitzgerald serves as BHEF’s chief executive officer, developing long-term strategy for the membership organization. Under Dr. Fitzgerald’s leadership, BHEF’s National Higher Education and Workforce Initiative (HEWI) has emerged as the organization’s strategic enterprise. Through BHEF member collaboration, HEWI includes regional projects focused on business-higher education partnerships in selected states, as well as national networks which disseminate insights and scale effective practices. HEWI deploys a model of strategic business engagement in higher education to address our members’ high-skill, high-priority workforce needs. The Wall Street Journal featured BHEF and its work in a front-page article, and the National Science Foundation recognized HEWI’s success with a five-year, $4.5M grant to increase persistence and diversity in undergraduate STEM education.

Backed by some of the nation’s most committed business and academic leaders, BHEF launched highly innovative partnerships in data science and analytics, financial services, cybersecurity, risk management, and social and mobile technologies. At the core of this effort is BHEF’s engagement model. Its five strategies enable business and higher education to move from transactional relationships to strategic partnerships and align undergraduate education with workforce needs. When implemented, these strategies increase baccalaureate attainment and create undergraduate pathways to produce a diverse, highly skilled talent pool to meet a region’s workforce needs in emerging fields. BHEF builds upon these successes to scale at the college/university system, regional, and national levels.

Prior to joining BHEF, Dr. Fitzgerald served as staff director for the federal Advisory Committee on Student Financial Assistance, which advises Congress on higher education and student aid policy. Dr. Fitzgerald has written extensively on policies to improve college access and success. He also served as an adjunct associate professor of government at American University. In the private sector, Dr. Fitzgerald held senior project management positions for large-scale education research projects for federal agencies.

Dr. Fitzgerald earned his master’s and doctoral degrees from the Harvard Graduate School of Education, and received his bachelor’s degree from the Massachusetts College of Liberal Arts, which named him Distinguished Alumnus and awarded him an honorary doctorate in public service.
Professor Ian Chubb was appointed to the position of Chief Scientist on 19 April 2011 and commenced the role in May 2011.

Prior to his appointment as Australia’s Chief Scientist, Professor Ian Chubb was Vice-Chancellor of the Australian National University from January 2001 to February 2011. He was Vice-Chancellor of Flinders University of South Australia for six years and the Senior Deputy Vice-Chancellor of Monash University for two years.

He was Chair of the Higher Education Council (the Commonwealth Government’s peak advisory body on higher education) from September 1990 to December 1994 and was, until mid-1994, the Deputy Chair of the National Board of Employment, Education and Training (the Commonwealth’s peak advisory body on all matters related to the Employment, Education and Training portfolio).

From January 1986 to September 1990, Professor Chubb was the Deputy Vice-Chancellor of the University of Wollongong and an Honorary Professor of Biology. During the period 1978-1985 he was Lecturer, Senior Lecturer and Associate Professor in the School of Medicine of Flinders University. Before that he was at Oxford University where, during the period 1971-1977, he was a Wellcome Foundation Scholar, a Junior Research Fellow of St John's College, and a Royal Society Research Fellow. He spent 1969-1971 as a JF & C Heymans Research Fellow at the University of Ghent, Belgium.

Professor Chubb’s research focused on the neurosciences and was supported by the National Health and Medical Research Council, the Australian Research Grants Scheme and by various Foundations.

Professor Chubb was President of the Australian Vice-Chancellors’ Committee (AVCC) during 2000 and 2001. Professor Chubb was an elected member, or member, of the Board of the AVCC between 1996 and 2006. He was Chair of the Group of Eight universities during 2003/5.

In 1999 Professor Chubb was made an Officer in the Order of Australia (AO) for “service to the development of higher education policy and its implementation at state, national and international levels, as an administrator in the tertiary education sector, and to research particularly in the field of neuroscience”. In 2006 he was made a Companion (AC) in the order for “service to higher education, including research and development policy in the pursuit of advancing the national interest socially, economically, culturally and environmentally, and to the facilitation of a knowledge-based global economy”.

Professor Chubb has been awarded 4 honorary doctorates: a DSc from Flinders University in 2000, a DUUniv from the Australian National University in 2011; a DLitt from Charles Darwin University in 2011 and a LLD from Monash University in 2012. He was the ACT’s Australian of the Year in 2011.

Professor Leon Sterling began his appointment as Pro Vice-Chancellor (Digital Frontiers) in January 2014. He is responsible for specific initiatives focused on the advancement of teaching and research capacity in information and communication technology areas across Swinburne.

Professor Sterling received a BSc (Hons) from the University of Melbourne and a PhD in Pure Mathematics from the Australian National University. He has worked at universities in the UK, Israel, the US, and Australia.

His teaching and research specialties are software engineering, artificial intelligence, and logic programming. Prior to this role, he was Professor of Software Innovation and Engineering and Director of e-Research at the University of Melbourne, and Dean of the Faculty of Information and Communication Technologies at Swinburne. He is President of the Australian Council of Deans of ICT.
ATTENDEE LIST

Algonquin Investments
Russell Yardley FAICD
Director

B/HERT
Dr Sharon Winocur
Executive Director

B/HERT
Christopher Goldsworthy
Assistant Executive Director

Business Council of Australia
Megan Kirchner
Director
Policy

Center for STEM Research Education and Outreach
South Illinois University
Dr Pamela Gay
Assistant Research Professor

Chartered Accountants Australia and New Zealand
Professor James Guthrie
Head of Academic Relations

Cisco
Ken Boal
Vice President
Cisco Australia and New Zealand

Cisco
Reg Johnson
General Manager
Education

Cisco
Tim Fawcett
General Manager
Government Affairs & Policy

Cisco
Gary Hale
Head of Department of Accounting & Corporate Governance

Cisco
Peter Lake
Service and Support Manager
Cisco Services

CSC
Mark Nebreda
A/CTO

CSC
Richard Wanden
Client Partner
State Government Victoria

Curtin University of Technology
Paul Nicholls
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Office of Research & Development

Deakin Digital
Allyn Radford
Chief Executive Officer

Deakin University
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School of Education
Faculty of Arts & Education

Deakin University
Assoc Prof Stuart Palmer
Integrated Learning
Faculty of Science Engineering and Built Environment

Deakin University
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Department of Education
Di Weddell
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Office for Learning & Teaching

Dimension Data Australia Pty Ltd
Debra Bordignon
Chief Technology Officer

Engineers Australia
Mirerva Holmes
National Events Manager & Convention 2014 Manager

Federation University Australia
Professor John Yearwood
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Faculty of Science and Technology

Intel Australia
Katherine Ford
Corporate Affairs Manager Australia

James Cook University
Professor Jeffrey Loughran
Deputy Vice Chancellor
Division of Tropical Environments and Societies

John Monash Science School
Peter Corkill
Principal

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Faculty of Science Technology and Engineering

Macquarie University
Nicholas McGuigan
Deputy Head of Department Accounting and Corporate Governance
McREL International
Wayne Craig
Executive Director

Monash University
Dr Alan Finkel AO
Chancellor

Office of the Chief Scientist
Professor Ian Chubb AC
Chief Scientist for Australia

Office of the Chief Scientist
Dr Roslyn Prinsley
National Science & Mathematics Education & Industry Adviser

Office of the Lead Scientist
Leonie Walsh
Lead Scientist

Open Universities Australia
Dr David Christie
Head of Business Planning and Architecture

PricewaterhouseCoopers
Tony Peake
Partner
National Leader – Government

PricewaterhouseCoopers
David Sacks
Partner

Shimadzu Scientific Instruments (Oceania) Pty Ltd
John Hewetson
Director and General Manager

Swinburne University of Technology
Derek Whitehead OAM
Chief Information Officer

Swinburne University of Technology
Professor Leon Sterling
Pro Vice-Chancellor (Digital Frontiers)

Tallinn University of Technology
Tea Varrick
Vice-Rector
Innovation and Internationalisation

Telstra Corporation Limited
Susi Steigler-Peters
National General Manager
Education Industry Development

Telstra Corporation Limited
Brett Cooper
Director
Digital Delivery and Planning

The University of Melbourne
Jacyl Shaw
Director of Community Partnerships
The Carlton Connect Initiative

University of Adelaide
Assoc Prof Katrina Falkner
Head of School
School of Computer Science

University of Tasmania
Dr Bernardo León de la Barra
Lecturer
Control Systems Engineering
NOTES