Practice of the future: Where is practice going? Architects, engineers, planners, landscape architects and builders

Practice for cities to:

- face the future challenges
- create the opportunity for thriving and abundance

6.00–7.30pm: Melbourne Forum presentations (at the Melbourne School of Design, University of Melbourne)

Pushing the boundaries to positive ecological and social outcomes
Dr Dominique Hes, M.AIRAH, is senior lecturer at the University of Melbourne. Dominique will discuss future practice for a thriving, abundant world.

A thriving Melbourne: An Indigenous perspective
Meyer Eldersson is an author, entertainer and social commentator. Meyer will provide insights into indigenous wisdom, and what we can learn from traditional custodians about creating a thriving, sustainable city.

Making innovation happen
Nick Adams, M.AIRAH, is mechanical services leader at Aup. Nick will detail case studies from around the world that put future practice into real buildings.

Sign on the line – Making Environmental Upgrade Finance simple
Eli Court is project manager at ClimateWorks Australia. Eli will explain how to finance future practice and how to make the most of our existing building stock.

7.30–9.00pm: Book launch, networking drinks and finger food.

Follow Melbourne Forum on Twitter: @MelbForum
The Future
WHICH FUTURE DO WE CHOOSE?

We have degraded 2/3 of our ecological capital (Millennium Ecosystem Assessment 2005)

Suicides have climbed to the highest rate of one every 40 seconds (World Health Organisation 2014)

There are more people in slavery today than in history (BBC 2012)

Earth has lost half of its wildlife in the past 40 years (WWF sourcing London zoological society and other research)
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We are facing temperatures that will make human life uninhabitable with estimates of human extinction in 100 years

Humans will be extinct in 100 years says eminent scientist
WHICH FUTURE DO WE CHOOSE?

Slavery, Hunger, Depression, Suicide

(Walker et al., 2008; IPCC, 2008)

Extinct in your lifetime?

Time, connecting, contributing, restoring

We've got 5 years to save world says Australia's chief scientist Professor Penny Sackett
WHICH FUTURE DO WE CHOOSE?

Cheonggyecheon River - before.  
PHOTO: BLOG.NAVER.COM/SEOULMUSE

Cheonggyecheon River - after.  
PHOTO: BLOG.NAVER.COM/SEOULMUSE

Making things worse  
Making things better
If we choose the future of thriving and abundance – how?

- Einstein

Source: http://creativedi.files.wordpress.com/2013/11/duet_einstein.jpg?w=960
We need

• New ways of designing, building, financing and conceptualising the city....

• New ways of living our lives and thinking
Moving from the mechanistic to the ecological worldview

You can’t put a flower back together after pulling it apart
Therefore new practice

• Practice that is informed by place – nature, history and indigenous wisdom – Meyer

• Practice that works with natural systems, where every investment has multiple benefits. Practice where feedback, learning and collaboration with all stakeholders is key (Nick)

• Practice that needs to develop new methods of creating value, that builds from opportunities and incentives available today (Eli)
Practice informed by new (old) ways of seeing the world, theories, tools and ideas

• Biomimicry
• Biophilia
• Permaculture
• Positive development
• Regenerative development
• Tools such as positive handprinting, integral thinking, spiral dynamics, lenses, regen, one planet living, living building challenge
• ....

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Biomimicry

Learning from nature

The laws of natural systems identified by Benyus are:

- Nature runs on sunlight.
- Nature uses only the energy it needs.
- Nature fits form to function.
- Nature recycles everything.
- Nature rewards cooperation.
- Nature banks on diversity.
- Nature demands local expertise.
- Nature curbs excesses from within.
- Nature taps the power of limits.

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Biophilia

Need to be connected to nature for physical and mental wellbeing

Active, Beautiful, Clean – Singapore’s ABC Waters Programme

An excellent example of regenerative landscape design is the ABC Waters Programme initiated by the Singapore Public Utilities Board (PUB; the national water agency) to improve the quality of water and community life by harnessing the full potential of the city-state’s waterbodies. This is done by integrating parks, waterways and communities, turning the city’s network of canals, drains and reservoirs into beautiful and clean streams, rivers and lakes that also provide recreational ‘active’ space for people to enjoy. It uses a range of ecological treatment strategies, including vegetated swales, sedimentation and bioretention basins, constructed wetlands and cleansing biotopes, which draw on the thinking of Lyle and the permaculturists, amongst others. The programme also encourages the use of green roofs, vertical gardens and rain gardens to improve water filtration and harvesting.

An important aspect of the programme is to make Singaporeans aware of the value of their water resources and their role in protecting this resource – an objective achieved through integrating water courses into the recreational spaces of the city, and encouraging schools to develop educational learning trails in nearby water projects.

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Permaculture

Integration, multiple benefits, connection

“Permaculture challenges humans to take responsibility for themselves and the economy that sustains them, by designing and practicing permanent, sustainable, cultural and agricultural systems created in accordance with environmental knowledge.”

James R. Veteto and Joshua Lockyer

Permaculture Design Principles

Principle 1 – Observe and interact
Principle 2 – Catch and store solar energy and other resources
Principle 3 – Obtain and yield
Principle 4 – Apply self-regulation and accept feedback
Principle 5 – Use and value renewable resources and services
Principle 6 – Produce no waste
Principle 7 – Design from patterns to details
Principle 8 – Integrate rather than segregate
Principle 9 – Use small and slow solutions
Principle 10 – Use and value diversity
Principle 11 – Use edges and value the marginal
Principle 12 – Creatively use and respond to change
Positive development

Using all the surface area of the city to create eco-services and public estate
Regenerative development

Addressing the physical by restoring and ensuring net benefit socially and environmentally

And supporting continual development of people through education, feedback, reflection, etc.

To create the potential to evolve both the physical systems and mental capacity
My garden
Tools, systems and process

positive handprinting,
integral thinking,
spiral dynamics,
lenses,
regen,
one planet living,
living building challenge
...

Want more –

Join the facebook site
https://www.facebook.com/groups/1454981918086885/

Like minded people meeting once a month -
https://www.facebook.com/LFMelbourneCollaborative

Think tank on Resilient Urban Systems in Transition - http://trustsa.weebly.com
Most important idea – contribution, connection and ...

Source: http://www.pinterest.com/sunaly nn/art-by-nature/
Most important idea – contribution, connection and ... **joy**

– do things that make you happy – make time to paint, play music, cook, knit, walk, learn, garden, play ... it will help you hum

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#DesigningForHope
So now to something that makes me happy...

With great pleasure I would like to launch .....
Designing for Hope – pathways to regenerative sustainability

“Designing for Hope is engaging, timely and captures the essence of the need for social and ecological sustainability. It is a call to action for all of us who care about the future of the planet.”

—Julie Allison, CEO Living Future Institute, Founder of the Living Building Challenge

A groundbreaking book on sustainable design that addresses the need for a new approach to design and development, based on examples of regenerative solutions. It aims to move the conversation away from depletive practices, while also addressing the challenge of designing for the future of the planet. The book offers a roadmap for navigating the critical transition to a regenerative economy, and it includes practical tools and strategies for creating a positive impact on the world.

Dominique Hes is an academic at the University of Melbourne who has been working on designing for sustainability. She is also a member of the Australian National University’s Sustainable Futures Institute. Her research focuses on the intersection of architecture and sustainability, and she has published extensively on this topic.

Chrisna du Plessis is a design and sustainability consultant who has worked with clients in a variety of industries to help them design buildings that are both functional and sustainable. She is also the founder of the website Sustainable Architecture and Design, which provides resources and guidance for architects and designers interested in sustainability.

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Two other books of interest

Rethink Building Materials
Creating ecological housing for the designer, builder and homeowner
edited by DICK CLARKE

A must for anyone renovating or building a home or researching the best materials to select for a healthy, efficient and comfortable home.

If you are an architect, designer, builder, tradesperson or homeowner then you must read this book before you build or renovate a house.

Written by thirty-five of Australia’s world-leading thinkers and practitioners of sustainable building design Rethink Building Materials is an excellent hands-on guide. It is filled with great information and images to keep you on track and ensure you’ve not missed any of the essentials to give you year round comfort, higher air quality, increased energy savings and a better way of life that doesn’t cost the earth.

Published by CL Creations Pty Ltd
Buy online for $39.99 (including postage) at www.rethinkbuildingmaterials.com.au

Melbourne Dreaming
A guide to important places of the past and present
Meyer Eidelson

SECOND EDITION
Thank you