



**1 DAY SEMINAR**  
**CIVIL DESIGN AND CONSTRUCTION ASPECTS  
OF LAND AND PROPERTY DEVELOPMENT**

**THURSDAY 15<sup>th</sup> SEPTEMBER 2016**

Lecture theatre XA.G.03 Western Sydney University Penrith (Kingswood) Campus  
Second Avenue, Kingswood NSW 2747

This 1-day seminar is aimed at disseminating practical information and recent developments on the design and construction aspects of land and property development. Topics covered include issues relating to urban storm water and drainage, pavement, earthworks and recycled materials that could lead to more cost effective and sustainable development. The speakers are drawn from an excellent mix of industry, academia and research organizations.

Some of the speakers are:

- **Geotechnical investigation for pavement design and rehabilitation** – Stephen Darmawan (Geotesta)
- **Automated Road Condition Data Collection** – Clint Bradley (Australian Road Research Board)
- **CIRCLY 6.0 – update on pavement design & analysis software**–Leigh Wardle (Mincad)
- **Foamed bitumen pavement stabilization** – Shane Pearce (Downer) & Sean Durkin (Durkin Constr.)
- **Permeable pavement – new developments** – A/Prof Sathaa Sathasivan (WSU)
- **Planning & implementation of stormwater drainage system** – A/Prof Surendra Shrestha (WSU)
- **Rainwater harvesting from roof catchments** – A/Prof Aatur Rahman (WSU)
- **Use of urban lakes for designing liveable subdivisions** – Dr Dharma Hagare (WSU)
- **Environmental implications of rainwater harvesting** – A/Prof Sathaa Sathasivan (WSU)
- **HVSR assessment of deep earthwork compaction** – Prof Chin Leo (WSU)
- **Eco-friendly concrete - high fire resistance of geopolymers concrete** - Zhu Pan (CIE, WSU)
- **Concrete made with steel slag and waste glass** – Prof Zhong Tao (CIE, WSU)
- **Risk Based Approach to Fire Safety Engineering Design** – Dr Yaping He (WSU)

This seminar is a collaboration between Western Sydney University and Geotesta Pty Ltd.

For further information email to: Prof Chin Leo [c.leo@westernsydney.edu.au](mailto:c.leo@westernsydney.edu.au)

Or [info@geotesta.com.au](mailto:info@geotesta.com.au)

**REGISTER BY 13<sup>TH</sup> SEPTEMBER - \$200 (\$50 for students)**  
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## **1 DAY SEMINAR PROGRAM**

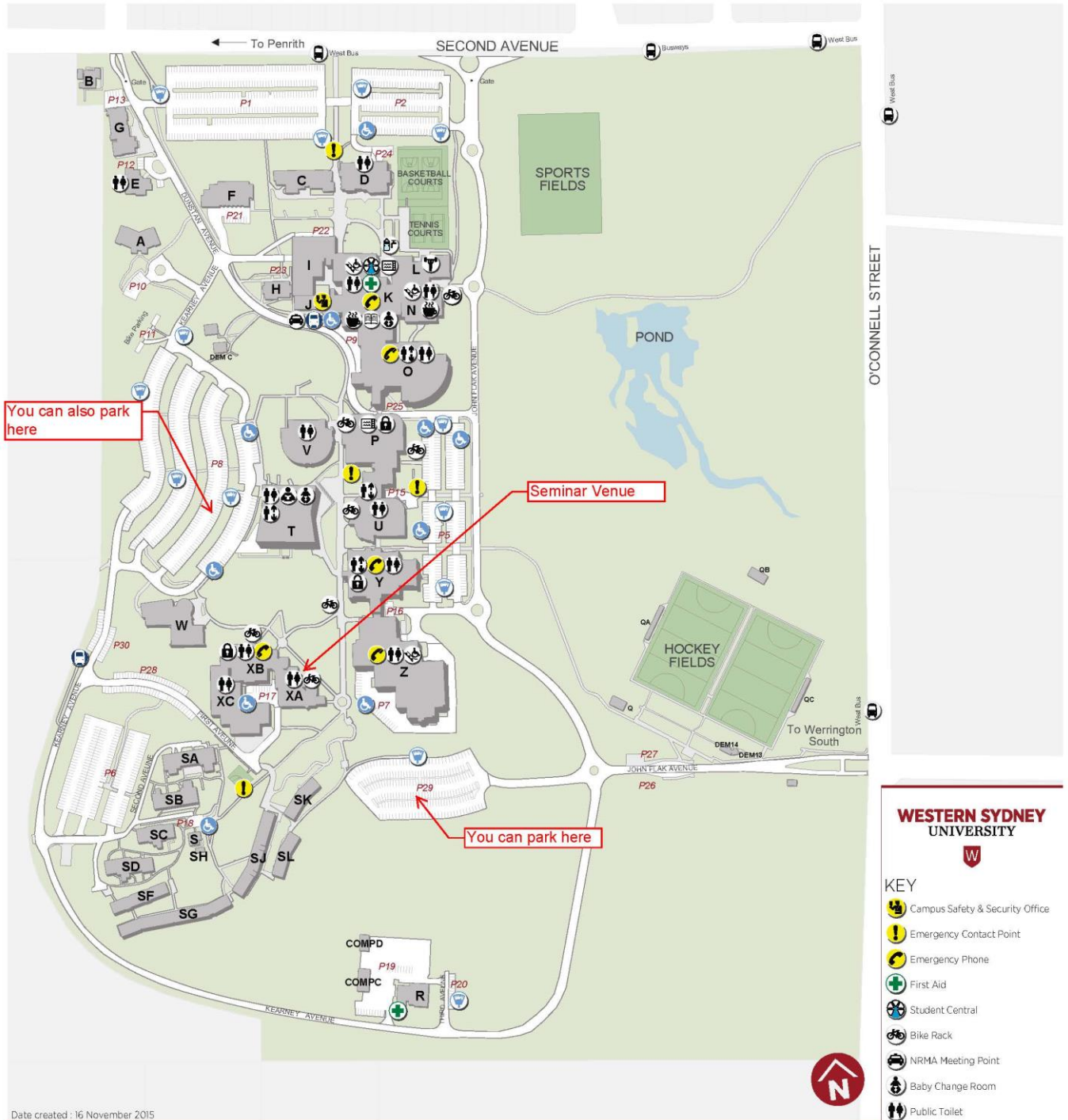
# **CIVIL DESIGN AND CONSTRUCTION ASPECTS OF LAND AND PROPERTY DEVELOPMENT**

**Thursday, 15<sup>th</sup> September 2016**

Lecture theatre XA.G.03 Western Sydney University Penrith (Kingswood) Campus  
Second Avenue, Kingswood NSW 2747

- 08:20-08:50 Registration
- 08:50-09:00 Welcoming address by Acting Dean Prof Yang Xiang
- Session 1: Pavement Rehabilitation and Design (Chair Prof Chin Leo, WSU)**
- 09:00-09:20 Geotechnical investigation for pavement design & rehabilitation – Stephen Darmawan (Geotesta)
- 09:20-09:40 Automated Road Condition Data Collection – Clint Bradley (Australian Road Research Board)
- 09:40-10:00 CIRCLY 6.0 – update on pavement design & analysis software–Leigh Wardle (Mincad)
- 10:00-10:20 Foamed bitumen pavement stabilization – Shane Pearce (Downer) & Sean Durkin (Durkin construction)
- 10:20-10:40 Permeable pavement – new developments – A/Prof Sathaa Sathasivan (WSU)
- 10:40-11:00 Morning Tea**
- Session 2: Stormwater Harvesting and Drainage (Chair Stephen Darmawan, Geotesta)**
- 11:00-11:20 Opportunities and challenges in planning & implementation of stormwater drainage system – A/Prof Surendra Shrestha (WSU)
- 11:20-11:40 Rainwater harvesting from roof catchments – A/Prof Ataur Rahman (WSU)
- 11:40-12:00 Use of urban lakes for designing liveable subdivisions – Dr Dharma Hagare (WSU)
- 12:00-12:20 Environmental implications of rainwater harvesting – A/Prof Sathaa Sathasivan (WSU)
- 12:20-13:20 Lunch Break**
- Session 3: Earthwork, Fire Safety and Use of Recycled Materials (Chair A/Prof Sathaa Sathasivan, WSU)**
- 13:20-13:40 Integrated invasive and non-invasive HVSR assessment of deep earthwork compaction – Prof Chin Leo (WSU)
- 13:40-14:00 An overview of eco-friendly concretes with a demonstration of high fire resistance of geopolymer concrete - Zhu Pan (CIE, WSU)
- 14:00-14:20 Concrete made with steel slag and waste glass – Prof Zhong Tao (CIE, WSU)
- 14:20-14:40 Risk Based Approach to Fire Safety Engineering Design – Dr Yaping He (WSU)
- 14:40-15:00 Closing Remarks
- 15:00-15:20 **Afternoon Tea**
- 15:20 **Tour of WSU Engineering Laboratories**

# Penrith, Kingswood campus



Date created : 16 November 2015

**Building ID**

- I Academic Registrar's Office
- N Badanjami Centre for Indigenous Education
- SJ Campus Living Villages
- P Campus Provost
- J Campus Safety and Security
- K Capital Works and Facilities
- J Centre for Educational Research
- G Cerebral Palsy Alliance
- V Computer Labs and IT Support
- XC,Z Institute in Infrastructure Engineering
- R Mail Centre
- XB MARCS Institute
- 334C BabyLab
- E Nordoff Robbins Music Therapy Centre
- K Office of Research Services
- XB Office of the Associate Pro Vice-Chancellor (Education Health and Services)
- I Office of the Pro Vice-Chancellor (Students)
- I Office of the Vice President (Recruitment and Advancement)
- F Print Services

**Building ID**

- XB,XC, Y,Z School of Computing, Engineering and Mathematics
- JK School of Education
- CO School of Humanities and Communication Arts
- K School of Science and Health
- P School of Social Sciences and Psychology
- I Student Administration - Operations
- J Student Administration - Services
- Student Support Services
  - > Counselling Service
  - > Disability Service
  - > PASS Program
- N Student Campus Council
- > Student Welfare Service
- O Tertiary Education Pathways and Partnerships
- V J16/600 Consultant
- P JWS Careers
- W JWS College

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- Building ID**
- A Childcare Centre
- Q Hockey Centre
- H Multi Faith Centre
- Chaplaincy, Muslim Prayer Rooms
- N Queer Room
- N UWS Campus Life Office
- H Womens Room
- K Student Central
- T John Phillips Library
- K rawr Energy
- N Subway
- N Bar Cafe
- K The University Store
- L uwsgym

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 Emergency Only - 1300 737 003 Internal Ext - 2300

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