



## Scott T. SMITH

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Dean of Engineering  
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- Professional Experience
- Dean of Engineering; Foundation Professor of Engineering; [Southern Cross University](#), Australia, (January 2013-present)
  - Assistant Professor, Associate Professor (Tenure); [University of Hong Kong](#), Hong Kong (2007-2013)
  - Lecturer, Senior Lecturer; [University of Technology Sydney](#), Australia (2003-2006)
  - Senior Research Associate; [University of New South Wales](#), Australia (2002-2003)
  - Postdoctoral Fellow; [Hong Kong Polytechnic University](#), Hong Kong (1999-2001)
  - PhD Candidate and Tutor; University of New South Wales, Australia (1995-1998)
  - Engineer; [Woolacotts Consulting Engineers](#), Sydney, Australia (1994)
- Visiting Appointments
- Contract Professor; Harbin Institute of Technology ([HIT](#)), China (2011-present) (100 experts program)
  - Short-Term Scholar; [Columbia University](#), USA (2011)
  - Visiting Professor; [Tsinghua University](#), China (2011)
  - Visiting Professor; Harbin Institute of Technology, China (2011)
- Education and Professional Affiliations
- BE (Civil Engineering) (1994), University of New South Wales, Australia
  - PhD in Structural Engineering (1999), University of New South Wales, Australia
  - Graduate Certificate in Higher Education Teaching and Learning (2005), University of Technology Sydney, Australia
  - Fellow, [Engineers Australia](#) (2011)
  - Fellow, American Society of Civil Engineers ([ASCE](#)) (2012)
  - Fellow, International Institute for FRP in Construction ([IIFC](#)) (2012)
  - Fellow, The Hong Kong Institution of Engineers ([HKIE](#)) (2013)
  - Chartered Australian Professional Engineer (Civil and Structural Colleges) (CPEng, Membership No. 532752) (since 1999)
  - Australian National Professional Engineers Register ([NPER](#)) (since 1999)
  - Registered Professional Engineer in Queensland ([RPEQ](#), Membership No. 13588) (2013)
  - Honorary Member, [Golden Key](#) International Honour Society (2014)
  - Member, American Concrete Institute ([ACI](#)) (since 2003)
  - Member, Int. Association for Bridge and Structural Engineering ([IABSE](#)) (since 2003)
  - Member, International Federation for Structural Concrete ([fib](#)) (since 2006)
  - Member, Asian Concrete Federation ([ACF](#)) (since 2010)
  - Member, International Society for Structural Health Monitoring of Intelligent Infrastructure ([ISHMII](#)) (since 2010)
- Research
- Professor Smith's research interests include the application of advanced materials (i.e. fibre-reinforced polymer (FRP) composites) for the repair and strengthening of existing concrete, metallic and timber infrastructure; and sustainable development of the built environment. He has published widely in the FRP composites in civil engineering field and has won several research awards from professional international institutions:
- 2011 Warren Medal, Engineers Australia

- 2010 Distinguished Young Researcher Award, International Institute for FRP in Construction (IIFC)
- CICE 2008 Best Paper Award
- 2004 Howard Medal, Institution of Civil Engineers UK (ICE)

To support his research he has been awarded >USD1.7million from external sources (Australian Research Council [ARC](#)-Discovery, ARC-Linkage, [RGC](#) Hong Kong-General Research Fund, National Natural Science Foundation of China [NSFC](#)) and sources internal to the university.

4-digit Field of Research (FOR) Codes applicable to expertise:

- 0905 Civil Engineering
- 0912 Materials Engineering
- 0913 Mechanical Engineering
- 0915 Interdisciplinary Engineering

To date he has published over 50 peer reviewed journal papers and over 90 peer reviewed conference papers. His publications have been cited over 1600 times in Scopus (h-index=20) and over 3900 times in [Google Scholar](#). He has delivered 4 keynote lectures, over 60 conference presentations, and over 70 invited presentations to universities and learned societies. Further publication details can be found at ePublications:

[http://works.bepress.com/scott\\_smith/](http://works.bepress.com/scott_smith/)

Keynote addresses:

- [Smith, S.T.](#) (2011) "Anchorage of externally bonded FRP strengthening systems", 7<sup>th</sup> National Conference on Infrastructure Applications of FRP Composites, Hangzhou, China, 15-16 October. (Published in *Industrial Composites*, Vol. 41, No. 464, pp. 28-37)
- [Smith, S.T.](#) (2010) "Strengthening of concrete, metallic and timber construction materials with FRP composites", *Proceedings, Fifth International Conference on FRP Composites in Civil Engineering, CICE 2010*, Beijing, China, 27-29 September, pp. 13-19.
- [Smith, S.T.](#) (2009) "FRP anchors: recent advances in research and understanding", *Proceedings, Second Asia-Pacific Conference on FRP in Structures, APFIS 2009*, Seoul, Korea, 9-11 December, pp. 35-44.
- [Smith, S.T.](#) and Kim, S.J. (2004) "Tests on structurally deficient RC slabs strengthened with fibre reinforced polymer (FRP) composites", *Proceedings, 3<sup>rd</sup> National FRP Conference*, Nanjing, China, 18-20 October, pp. 6-1 - 6-10.

Representative Publications

- [Smith, S.T.](#) (2014) *Proceedings of the 23rd Australasian Conference on the Mechanics of Structures and Materials, ACMSM23*, Byron Bay, Australia, 9-12 December 2014, ISBN 978-0-9941520-0-8, 1254 pp.
- Al-Mahaidi, R., [Smith, S.T.](#), Bai, Y. and Zhao, X.L. (2013) *Proceedings of the Fourth Asia-Pacific Conference on FRP in Structures, APFIS 2013*, Melbourne, Australia, 11-13 December 2013, ISBN 978-0-9875930-1-6 (USB).
- [Smith, S.T.](#) (2007) *Proceedings of the First Asia-Pacific Conference on FRP in Structures, APFIS 2007*, Hong Kong, China, 12-14 December 2007, ISBN 978-962-8014-14-9, 1144 pp.
- Teng, J.G., Chen, J.F., [Smith, S.T.](#) and Lam, L. (2002) *FRP-Strengthened RC Structures*, John Wiley & Sons, West Sussex, U.K., ISBN 0471487066, 245 pp. (This book was translated into Chinese in 2005, Korean in 2006, and Persian in 2008)
- Wan, J., [Smith, S.T.](#), Qiao, P. and Chen, F. (2014) "Influence of adhesive type on FRP-to-timber bonds", *Journal of Composites for Construction, ASCE, IIFC 10<sup>th</sup> Anniversary Special Issue* (Invited).
- Zhang, H.W. and [Smith, S.T.](#) (2012) "Influence of FRP anchor fan configuration and dowel angle on anchoring FRP plates", *Composites Part B: Engineering*, Vol. 43, pp. 3516-3527.
- [Smith, S.T.](#), Hu, S., Kim, S.J. and Seracino, R. (2011) "FRP-strengthened RC slabs anchored with FRP anchors", *Engineering Structures*, Vol. 33, Issue 4, pp. 1075-1087.

- Smith, S.T. and Kim, S.J. (2010) "Deflection calculation of FRP-strengthened RC flexural members", *Australian Journal of Structural Engineering*, Special Issue on Fibre Reinforcement in Concrete Structures, Vol. 11, No. 2, 75-86. (Invited) (2011 WARREN MEDAL, ENGINEERS AUSTRALIA)
- Kim, S.J. and Smith, S.T. (2010) "Pullout strength models for FRP anchors in uncracked concrete", *Journal of Composites for Construction*, ASCE, Vol. 14, No. 4, pp. 406-414. (2011 TOP DOWNLOADS, 2<sup>nd</sup> MOST DOWNLOADED)
- Seliem, H.M., Sumner, E.A., Seracino, R. and Smith, S.T. (2008) "Field testing of RC slabs with openings strengthened with CFRP", *Proceedings (CD Rom), Fourth International Conference on FRP Composites in Civil Engineering, CICE 2008*, Zürich, Switzerland, 22-24 July. (CICE 2008 BEST PAPER AWARD)
- Gilbert, R.I. and Smith, S.T. (2006) "Strain localization and its impact on the ductility of reinforced concrete slabs containing 500 MPa reinforcement", *Advances in Structural Engineering*, Vol. 9, No. 1, pp. 117-127. (Invited)
- Teng, J.G., Chen, J.F., Smith, S.T. and Lam, L. (2003) "Behaviour and strength of FRP-strengthened RC structures: A state-of-the-art review", *Proceedings of the Institution of Civil Engineers: Structures and Buildings*, Vol. 156, No. 1, pp. 51-62. (2004 HOWARD MEDAL, INSTITUTION OF CIVIL ENGINEERS, UK)
- Smith, S.T. and Teng, J.G. (2001) "Interfacial stresses in plated beams", *Engineering Structures*, Vol. 23, No. 7, pp. 857-871. (> 220 Scopus cites)

Teaching and Supervision Professor Smith has been active in curriculum and pedagogy development in Australian and Hong Kong universities for over 12 years now.

Led the development of the following courses at Southern Cross University:

- *Masters of Engineering Management*: to commence in 2015
- *Graduate Certificate in Engineering Management*: to commence in 2015
- *Bachelor of Engineering (Honours) in Mechanical Engineering*: to commence in 2016

Developed the following subjects at the University of Hong Kong:

- *Sustainable Development of the Built Environment*
- *Research Ethics for Graduate Students*
- *FRP Composites for Civil Engineering Applications*

Prizes include:

- 2011-12 Best Teacher Award; Faculty of Engineering, University of Hong Kong.
- Supervisor; Best Paper Award in Structural and Mechanics Discipline (2011), Institution of Civil Engineers (ICE) Hong Kong Graduates and Students Papers Competition to Ms Jennyfer TSE for thesis *Teaching Structural Engineering Sense*.
- Supervisor; two Dean's Prize Winners and Best Poster Prize Winner at UTS for final year undergraduate projects in 2004 (Semester 1) and 2006 (Semester 2).

Supervision of 53 final year project students and 14 masters project students to completion. Supervision of 6 PhD and 2 MPhil students to completion.

Graduated Research Students (<sup>1</sup> Smith Lead Supervisor; <sup>2</sup> Smith Co-supervisor):

- Shrestha, R. (2010)<sup>1</sup> *Behaviour of RC Beam-Column Connections Retrofitted with FRP Strips*, PhD, University of Technology Sydney, Australia.
- Kim, S.J. (2010)<sup>1</sup> *Strengthening of RC Slabs with Penetrations using Unanchored and Anchored FRP Composites*, PhD, University of Technology Sydney, Australia.
- Loo, M.K.Y (2011)<sup>2</sup> *Fatigue Behaviour of CFRP-Repaired Corroded RC Beams*, PhD, The University of New South Wales, Australia.
- Zhang, H.W. (2013)<sup>1</sup> *Influence of FRP Anchors on FRP-to-Concrete Bonded Interfaces*, PhD, The University of Hong Kong, China.
- Yang, J.Q. (2013)<sup>1</sup> *Influence of Strengthening and Repair Type Schemes on Dowel Type Timber Joints and Moment Resisting Frames*, PhD, The University of Hong Kong, China.

- Wan, J. (2014)<sup>1</sup> *An Investigation of FRP-to-Timber Bonded Interfaces*, PhD, The University of Hong Kong, China.
  - Hu, S. (2012)<sup>1</sup> *Strengthening of RC Slabs with Anchored FRP Composites*, MPhil, The University of Hong Kong, China.
  - Yip, H.L. (2012)<sup>2</sup> *Serviceability Performance of Prestressed Concrete Buildings Taking into Account Long-Term Behaviour*, MPhil, The University of Hong Kong, China.
- Service
- Member of Executive Committee; Australian Council of Engineering Deans ([ACED](#)) (2013-present)
  - Member of Executive Committee; Australasian Association for Engineering Education ([AAEE](#)) (2013-present)
  - Immediate Past President; Engineers Australia Hong Kong Chapter ([EAHK](#)) (2013-14) {EAHK President, 2012-13}
  - Senior Vice President; International Institute for FRP in Construction ([IIFC](#)) (2014-present) {member of the Executive Committee since 2006}
  - Member of Committee; Engineers Australia Newcastle Division (2014-present)
  - Chair, Northern Rivers Regional Group of Engineers Australia (2014-present)
  - [President's Award](#) (2008), International Institute for FRP in Construction.
  - Associate Editor; [Australian Journal of Civil Engineering](#) (Engineers Australia)
  - Editorial Board Member: [Journal of Composites for Construction](#) (ASCE, USA), Proceedings of the ICE – [Structures and Buildings](#) (ICE, UK), [International Journal of Concrete Structures and Materials](#) (Springer)
  - Peer review for over 40 journals. Over 230 paper reviews
  - Peer review for over 35 conferences
  - Examiner of 22 PhD + 6 MPhil Theses in Australia, Hong Kong and Sweden
  - Chair; 2016 Australasian Association for Engineering Education Conference (AAEE 2016, Coffs Harbour, Australia, December 2016)
  - Chair: 2016 Engineers Australia Newcastle Division Regional Conference (Lismore, May 2016)
  - Chair; 23<sup>rd</sup> Australasian Conference on the Mechanics of Structures and Materials (ACMSM23, Byron Bay, Australia, 9-12 December 2014)
  - Co-chair; Fourth Asia-Pacific Conference on FRP in Structures ([APFIS 2013](#), Melbourne, December 2013)
  - Chair; Inaugural [APFIS](#) conference (Hong Kong, December 2007)
  - >40 International Conference Scientific Committee Memberships

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