Details of Professor Wang’s CV

A. TEACHING

(a) Modules Taught since Academic Year 2000

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Module Code</th>
<th>Module Title</th>
<th>Students’ Feedback Overall Score (Out of 5.00)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY2008 Sem 1</td>
<td>ESP2109</td>
<td>Design Project 1</td>
<td>4.250</td>
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<tr>
<td>AY2008 Sem 1</td>
<td>PC1433</td>
<td>Mechanics and Waves</td>
<td>4.292</td>
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<td>AY2008 Sem 1</td>
<td>ESP3901</td>
<td>Major Design Project</td>
<td>4.375</td>
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<td>AY2007 Sem 1</td>
<td>ESP2109</td>
<td>Design Project 1</td>
<td>4.065</td>
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<td>AY2007 Sem 1</td>
<td>PC1433</td>
<td>Mechanics and Waves</td>
<td>4.379</td>
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<td>AY2006 Sem 1</td>
<td>PC1433</td>
<td>Mechanics and Waves</td>
<td>4.381</td>
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<td>AY2004 Sem 1</td>
<td>CE5513</td>
<td>Plastic Analysis of Structures</td>
<td>4.357</td>
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<td>AY2004 Sem 1</td>
<td>EG1109</td>
<td>Statics &amp; Mechanics of Materials</td>
<td>3.655</td>
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<td>AY2004 Sem 1</td>
<td>CE5514</td>
<td>Plate &amp; Shell Structures (wef AY2003/04)</td>
<td>4.556</td>
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<td>AY2003 Sem 2</td>
<td>EG1109</td>
<td>Statics &amp; Mechanics of Materials</td>
<td>3.893</td>
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<td>AY2003 Sem 1</td>
<td>CE5514</td>
<td>Plate &amp; Shell Structures (wef AY2003/04)</td>
<td>4.448</td>
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<td>AY2003 Sem 1</td>
<td>EG1415</td>
<td>Engineering Professionalism</td>
<td>4.500</td>
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<td>AY2002 Sem 2</td>
<td>EG1109</td>
<td>Statics &amp; Mechanics of Materials</td>
<td>4.067</td>
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<td>AY2002 Sem 1</td>
<td>EG1109</td>
<td>Statics &amp; Mechanics of Materials</td>
<td>4.112</td>
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<td>AY2001 Sem 1</td>
<td>EG1104</td>
<td>Statics</td>
<td>4.213</td>
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<td>AY2000 Sem 2</td>
<td>CE4253</td>
<td>Plate and Shell Structures</td>
<td>4.600</td>
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<td>AY2000 Sem 1</td>
<td>EG1104</td>
<td>Statics</td>
<td>4.465</td>
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(b) Ph.D/M.Eng Students Graduated

M.Eng. students and titles of their theses

Ph.D students and titles of their theses

(c) Thesis Examined (Overseas)

(d) Teaching Awards

1. Innovative Teaching Award 2007/2008
2. Teaching Commendation, AY2004/2005
3. Teaching Honours List Award, AY2003/2004
5. NUS 100 Best Teachers, AY2001/2002
6. Teaching Commendation, AY2000/2001
7. Teaching Commendation, AY1999/2000
9. NUS Teaching Excellence Award, AY1998/1999
12. Teaching Commendation, AY1996/1997

B. RESEARCH

(a) Publications

Authored or coauthored more than 400 technical publications (see attached file for list of publications).

(b) Research Grants

1. Collaborator - Use of carbon nanotubes to enhance the properties of concrete so as to create stronger, lighter, more ductile and easier-to-build structures. External Grant A$280,000 (01-01-2011 to 31-12-2013).
2. Principal Investigator – Feasibility Study on Use of Underground Space Beneath a Container Terminal. External Grant $2,144,400 (01-09-2010 to 31-08-2012).
4. Principal Investigator - Research into the Connection System for Very Large Floating Concrete Modules on the Sea. External Grant $180,000 (01-11-2007 to 31-10-2010)
5. Collaborator – Distributed stochastic simulation for the hydroelastic analysis of very large floating structures. External Grant 80,000€ grant. Project funded by the International Graduate School of Science and Engineering, Technische Universitat Munchen (01-01-2009 to 01-01-2012).
6. Principal Investigator - Research Feasibility Study on Technical and Application of Large Scale Versatile Floating Sea Structures for Processed Petrochemical Storage. External Grant $100,000. NUS Grant $5,000 (01-05-2006 to 30-04-2007)
7. Principal Investigator - Research into a Multi-purpose Mega-floating Offshore Bunker Supply Base. External Grant $100,000. NUS Grant $25,000 (01-10-2005 to 30-9-2006)
8. Principal Investigator - Research into Super-Large Floating Container Terminal. External Grant $100,000. NUS Grant $56,500 (01-04-2005 to 31-03-2006)
9. Principal Investigator - Buckling of Carbon Nanotubes. NUS Grant $66,711. (01-12-2003 to 30-11-2006)
11. Principal Investigator – Composite Thick-Walled Structures. NUS Grant $9,480. (01-01-1996 to 01-01-1999)
12. Principal Investigator – Application of Stub-Girder Flooring System. NUS Grant $16,000. (01-08-1992 to 01-08-1994)
13. Principal Investigator - Effects of Pre-Buckling Deformation on Stability of Structures. NUS Grant $80,500. (01-08-1992 to 01-08-1994)
14. Collaborator - Scan of Maritime Technologies - Offshore and Marine Engineering. External Grant $5,000 (01-10-2004 to 31-12-2004)
16. Collaborator - Active Shape Control of Smart Structures. NUS Grant $52,340. (01-03-1999 to 01-02-2002)

(c) Research Awards/Prizes and Patents

1. Lewis Kent Award 2009
2. IES Outstanding Volunteer Award 2007/08, by the IES/IStructE Joint Committee, the Institution of Engineers, Singapore.
3. IES/IStructE Best Structural Paper Award 1992
4. Second Prize in IDEERS 2010 Competition (Mentor of NUS team)

Professor Wang holds patents on
5. A Pontoon-type Floating Structure (US 2009/0217855, China Patent No: 200580051840),

(d) Membership on Conference Committees

2. Member of the International Advisory Committee of the 12th East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-12), Hong Kong, 26-28 January 2011.
4. Member of International Scientific Committee of the Australasian Structural Engineering Conference (ASEC 2010), Sydney, Australia, 8-12 August 2010.
5. Member of International Scientific Committee of the 6th International Conference on Advances in Steel Structures (ICASS 2009), Hong Kong, 16-18 December 2009
6. Member of International Advisory Committee of the International Conference on Computational Methods in Engineering and Sciences (CMES 2009), Hyderabad, India, 8-10 January 2009.
7. Member of International Advisory Committee of the 11th East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-11), Taipei, Taiwan, 19-21 November 2008
8. Member of Organising Committee of the 21st KKCNN Symposium on Civil Engineering, Singapore, 27-28 October 2008
10. Member of International Advisory Committee of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE 2008), Estoril, Portugal, 15-20 June 2008
11. Member of International Organising Committee of the IStructE Centenary Conference: Turning Ideas to Reality, Hong Kong, China, 24-26 January 2008
13. Member of Steering Committee of the 7th International Conference on Optimization: Techniques and Applications (ICOTA7), Kobe, Japan, 12-15 December 2007
14. Member of Organising Committee of the 5th International Conference on Advances in Steel Structures (ICASS 2007), Singapore, 5-7 December 2007
16. Member of Technical Committee of the 2nd International Maritime-Port Technology and Development Conference (MTEC 2007), Singapore, 26-28 September 2007
17. Member of Editorial Board of the 11th International Conference on Civil, Structural and Environmental Engineering Computing (CC2007), St Julians, Malta, 18-21 September 2007
18. Member of Scientific Committee of the 2nd International Conference on Engineering Education (ICEE-2), Kuwait, 9-11 April 2007
19. Member of International Advisory Committee of the 2nd International Congress on Computational Mechanics and Simulation (ICCMS 2006), IIT Guwahati, India, 8-10 December 2006
20. Member of International Scientific Committee of the International Colloquium on Stability and Ductility of Steel Structures (SDSS 2006), Lisbon, Portugal, 6-8 September 2006
21. Member of International Advisory Committee of the 10th East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-10), Bangkok, Thailand, 3-5 August 2006
22. Secretary of Organising Committee of the 19th Asian Technical Exchange and Advisory Meeting on Marine Structures (TEAM Conference 2005), Singapore, 5-7 December 2005
23. Member of Editorial Board of the 10th International Conference on Civil, Structural and Environmental Engineering Computing (CC2005), Rome, Italy, 30 August - 2 September 2005
25. Member of International Advisory Committee of the 4th International Conference on Advances in Steel Structures (ICASS 2005), Shanghai, China, 13-15 June 2005
26. Member of International Advisory Committee of the International Conference on Computational Methods (ICCM 2004), Singapore, 15-17 December 2004
27. Member of International Advisory Panel of the 1st International Congress on Computational Mechanics and Simulation (ICCMS 2004), IIT Kanpur, India, 9 – 12 December 2004
28. Member of Steering Committee of the 6th International Conference on Optimization: Techniques and Applications (ICOTA6), Ballarat, Victoria, Australia, 9-11 December 2004
29. Chairman of Organising Committee of the International Conference on Teaching and Learning in Higher Education (TLHE 2004), Singapore, 1-3 December 2004
30. Member of Scientific Advisory Board of the 6th World Congress on Computational Mechanics (WCCM VI), Beijing, China, 5-10 September 2004
31. Member of International Advisory Committee of the 3rd International Conference on Advances in Structural Engineering and Mechanics (ASEM 2004), Seoul, Korea, 2-4 September 2004
32. Chairman of Technical Committee of the International Conference on Structural and Foundation Failures (ICSFF 2004), Singapore, 2-4 August 2004
33. Chairman of Organising Committee of the 2nd ABET International Faculty Workshop on Continuous Program Improvement, Singapore, 9-11 December 2003
34. Member of International Scientific Committee of the 7th Asian Pacific Conference on Shell and Spatial Structures, International Symposium on New Perspectives for Shell and Spatial Structures (IASS-APCS 2003), Taipei, Taiwan, 22-25 October 2003
35. Member of Editorial Board of the 9th International Conference on Civil and Structural Engineering Computing, Egmond aan Zee, The Netherlands, 2-4 September 2003
36. Chairman of Organising Committee of the 2nd International Conference on Structural Stability and Dynamics (ICSSD 2002), Singapore, 16-18 December 2002
37. Member of International Scientific Committee of the 3rd International Conference on Advances in Steel Structures (ICASS 2002), Hong Kong, SAR China, 9-11 December 2002
38. Chairman of Organising Committee of the 2nd Symposium on Teaching and Learning in Higher Education (TLHE 2002), Singapore, 4-6 September 2002
39. Member of International Advisory Committee of the 2nd International Conference on Advances in Structural Engineering and Mechanics (ASEM 2002), Busan, Korea, 21-23 August 2002
40. Member of International Advisory Committee of the 9th International Conference on Computing in Civil and Building Engineering (ICCCBE-IX), Taipei, Taiwan, 3-5 April 2002
41. Member of Advisory Committee of the 5th International Conference on Optimization: Techniques and Applications (ICOTA 2001), Hong Kong, SAR China, 15-17 December 2001
42. Member of Regional Organising Committee of the 1st Asia-Pacific Congress on Computational Mechanics (APCOM 2001), Sydney, Australia, 20-23 November 2001
43. Member of International Advisory Committee of the 8th International Conference on Enhancement and Promotion of Computing Methods for Engineering and Science (EPMESC'VIII), Shanghai Jiao Tong University, Shanghai, China, 25-28 June 2001
44. Co-Chairman of Organising Committee of the 1st International Conference on Structural Stability and Dynamics (ICSSD 2000), Taipei, Taiwan, 7-9 December 2000
45. Co-Chairman of Organising Committee of the 1st Symposium on Teaching and Learning in Higher Education, National University of Singapore, 6-7 July 2000
46. Chairman of Organising Committee of the 4th Asia-Pacific Conference on Computational Mechanics for the Next Millennium (APCOM '99), Singapore, 15-17 December 1999
47. Member of Local Advisory Committee of the 8th Asia-Pacific Vibration Conference '99 (A-PVC '99), Singapore, 13-15 December 1999
48. Member of International Advisory Committee of the 1st International Conference on Advances in Structural Engineering and Mechanics (ASEM '99), Seoul, Korea, 10-13 August 1999
49. Member of Organising Committee of the 2nd International Conference on Thin-Walled Structures (ICTWS 1998), Singapore, 2-4 December 1998
50. Member of International Program Committee of the 4th International Conference on Optimization: Techniques and Applications (ICOTA '98), Perth, Australia, 1-3 July 1998
51. Member of International Steering Committee of the 7th Asia-Pacific Vibration Conference '97 (A-PVC '97), Kyongju, Korea, 9-13 November 1997
52. Chairman of Organising Committee of the Symposium on Structural Dynamics, Vibration and Buckling, ASME Asia 97 Congress and Exhibition, Singapore, 30 September - 2 October 1997
53. Member of International Advisory Committee of the 7th International Conference on Computing in Civil and Building Engineering (ICCCBE-VII), Seoul, Korea, 19-21 August 1997
54. Secretary of Organising Committee of the International Conference on Foundation Failures (ICFF 97), Singapore, 12-13 May 1997
55. Member of International Scientific Committee of the 3rd Asian-Pacific Conference on Computational Mechanics (APCOM '96), Seoul, Korea, 16-18 September 1996
56. Member of International Scientific Committee of the International Conference on Structural Stability and Design (ICSSD '95), Sydney, Australia, 30 October - 1 November 1995
57. Member of International Program Committee of the 3rd International Conference on Optimization: Techniques and Applications (ICOTA '95), Chengdu, China, 5-8 June 1995
58. Co-Chairman of Organising Committee of the 2nd International Conference on Optimization: Techniques and Applications (ICOTA '92), Singapore, 3-5 June 1992

(e) Membership on Journal Editorial Boards

1. Founding Editorial Board Member of Advances in Applied Mathematics and Mechanics, Global Science Press, China (since 05-09-2008).
2. Member, Editorial Board of Advances in Theoretical and Applied Mechanics, Hikari Ltd, Bulgaria (since 07-11-2007).
4. Member, Editorial Advisory Board of The Open Mechanics Journal, Bentham Sc Publ, USA (since 14-02-2007).
5. Member, Editorial Advisory Board of The Open Civil Engineering Journal, Bentham Sc Publ, USA (since 13-2-2007).
6. Member, Editorial Advisory Board of The Open Nanoscience Journal, Bentham Sc Publ, USA (since 07-02-2007).
7. Member, Editorial Advisory Board of Recent Patents on Engineering, Bentham Sc Publ, USA (since 15-07-2006).
9. Member, Editorial Board of International Journal of Computational Structural Engineering, COSEIK, Korea (since 01-01-2001).
12. Honorary Editor of *International Journal of Engineering and Applied Sciences*, Akdeniz University, Turkey (Since 01-01-2009)
13. Member, Editorial Board of *Ocean Systems Engineering*, Techno Press, Korea (since 01-01-2011)

(f) Appointment as external assessor; membership on visiting committees

1. External Examiner for Advanced Diploma in Ship and Marine Technology (ADSMT), Ngee Ann Polytechnic (01-07-2006 to 30-06-2008)
2. External Assessor of Research grant proposal "Vibration Analyses of Rectangular and Circular Thin Plates subject to Point Loads", City University of Hong Kong (01-02-2008 to 15-03-2008)

(g) Other Visiting Appointments

1. Visiting academic to Monash University (9-6-2009 to 16-6-2009 and 14-6-2010 to 11-6-2010)
2. Visiting academic to Technical University of Munich (12-01-2009 to 17-01-2009).
4. Visiting scholar to Texas A&M University (23-05-1999 to 03-06-1999)
6. Visiting Academic to University of Sydney (04-12-1989 to 31-12-1989)
7. Visiting Academic to University of Western Australia (15-10-1989 to 06-11-1989)

(h) Invited presentations at scholarly meetings/workshops

*Sponsored Invitation: FULL (keynote speaker)*


**Sponsored Invitation: PARTIAL**


**Invitation Only**


**(i) Supervised the following research personnel**

1. Dr Song Jianhong, Research fellow (15 February 2007 to 11 March 2009)
2. Dr Duan Wenhui, Research fellow (12 June 2007 to 12 September 2008)
3. Dr Cynthia Wang, Research fellow (17 April 2005 to 27 July 2007)
4. Dr Chan Chun Tat (1 March to 31 August 2009)
5. Dr Tay Zhi Yung, Research fellow (1 July 2009 to present)
6. Ms Emma Bangun (1 July 2008 to 31 October 2010)
7. Mr Nguyen Hoang Dat (8 November 2010 to present)
8. Dr Zhang Zhen (1 January 2011 to present)

**C. SERVICE**

**(a) University Service**
1. **Director**, FoE Engineering Science Program (ESP), Faculty of Engineering (01-2007 to 30-6-2012)
2. **Deputy Head** (Administration and Graduate Studies), FoE Engineering Science Program (ESP), Faculty of Engineering (01-04-2005 to 30-11-2007)
3. **Deputy Director**, Centre for Offshore Research and Engineering (01-07-2004 to 30-6-2006)
4. **Member**, CE Outreach Committee, Department of Civil Engineering (01-07-2004 to 30-6-2005)
5. **Member**, CE Research Evaluation Committee, Department of Civil Engineering (01-07-2004 to 30-6-2005)
6. **Department Representative**, FoE Industry Relations Committee, Faculty of Engineering (01-01-2004 to 30-6-2004)
7. **Affiliate**, Centre for Development of Teaching and Learning (01-01-2003 to 31-03-2005)
8. **Vice-Dean** (Undergraduate Programs), FoE Faculty Management Committee (FMC), Faculty of Engineering (17-8-2001 to 06-07-2003)
9. **Member**, Integrated Student Information System, National University of Singapore (17-08-2001 to 06-07-2003)
10. **Member**, NUS Board of Undergraduate Studies (BUS), National University of Singapore (17-08-2001 to 06-07-2003)
11. **Chairman**, CE Department Evaluation Committee, Department of Civil Engineering (01-07-2001 to 30-6-2003)
12. **Chairman**, FoE Accreditation and Benchmarking Committee, Faculty of Engineering (01-07-2000 to 30-6-2003)
13. **Member**, NUS Senate, National University of Singapore (01-07-2000)
14. **Member**, University Committee of Education Policy, National University of Singapore (01-7-2000 to 30-6-2003)
15. **Associate Director**, Centre for Development of Teaching and Learning (01-02-1999 to 31-12-2002)
16. **Member**, Task Force for Small Group Teaching, Faculty of Engineering (01-07-1998 to 30-6-2002)
17. **Chairman**, CE BED Committee, Department of Civil Engineering (01-07-1997 to 30-6-2000)
18. **Chairman**, FoE Engineering Learning, Teaching and Education Committee (ELTEC), Faculty of Engineering (01-07-1997 to 30-6-2003)
19. **Member**, Task Force for Small Group Teaching, National University of Singapore (01-07-1997 to 30-6-1999)
20. **Member**, CE Junior College Advisory Committee, Department of Civil Engineering (01-07-1006 to 30-6-2000)
21. **Chairman**, FoE UROP Committee, Faculty of Engineering (01-07-1996 to 30-6-2002)
22. **Deputy Chairman**, FoE Public Relations Committee, Faculty of Engineering (18-8-1995 to 30-6-1998)
23. **Member**, Liaison Officer for Australian Universities, Department of Civil Engineering (01-07-1995 to 30-6-1998)
24. **Member**, FoE Task Force for Small Group Teaching, Faculty of Engineering (01-07-1995 to 30-6-1997)
25. **Member**, CE Final Year Project, Department of Civil Engineering (01-07-1994 to 30-6-1996)
26. **Coordinator**, CE Lab Experiment Committee, Department of Civil Engineering (01-07-1994 to 30-6-1997)
31. **Coordinator**, CE Undergrad Research Opportunities Programme, Department of Civil Engineering (01-07-1994 to 30-6-1997)
32. **Leader**, CE Computational Mechanics Group, Department of Civil Engineering (01-07-1993 to 30-6-1996)
33. **Chairman**, CE Public Relations Committee, Department of Civil Engineering (01-07-1993 to 30-6-1997)
34. **Member**, CE Research Report Publications Committee, Department of Civil Engineering (01-07-1993 to 30-6-1995)
35. **Member**, FoE First Stage Engineering Board of Examiners, Faculty of Engineering (01-07-1989 to 30-6-2003)
36. **Editorial Board Member**, FoE Research News, Faculty of Engineering (01-07-1989 to 30-6-1992)

(b) **Services Outside University**

1. Council Member of Asia Pacific Association for Computational Mechanics (since 04-06-1999).
2. Fellow of Institution of Engineers, Singapore (since 28-09-2004).
3. Member of Institution of Engineers, Singapore (28-09-1990 to 27-09-2004).
4. Corresponding Member, Council 2007-08 of Institution of Structural Engineers (10-05-2007 to 09-05-2008).
5. Corresponding Member, Education Task Group of Institution of Structural Engineers (29-09-2006 to 09-05-2007).
6. Member, Paper Awards Panel of Institution of Structural Engineers (29-09-2006 to 28-09-2007).
7. Fellow of Institution of Structural Engineers (since 21-12-2004).
8. Member, International Agreements Panel of Institution of Structural Engineers (01-10-2004 to 28-09-2008).
9. Member, Research Panel of Institution of Structural Engineers (01-10-2004 to 28-09-2008).
10. Member of Institution of Structural Engineers (22-01-1998 to 20-12-2004).
11. Chairman, IES/IStructE Joint Committee of Institution of Structural Engineers - Singapore Division (since 01-07-2004).
14. Member, ISSC Committee V.2 Floating Production Systems of International Ship and Offshore Structures Congress (20-08-2006 to 31-08-2009).
17. Member-at-Large of Structural Stability (since 10-11-2002).

(c) **Consulting Services**

6. Analysis of supporting structure for antenna on BFI building (24-5-2005 to 7-6-2005) for Agilis Communication Tech Pte Ltd.