

Short CV – UME School Lecturers (max 1 page)

Lecturer	Athol CARR
Date of Birth and Nationality	
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E-mail	a.carr@civil.canterbury.ac.nz or athol.carr@canterbury.ac.nz
Institution	University of Canterbury
Course	Seismic Response and Analysis of Structures
Programme	Earthquake Engineering and Engineering Seismology (ROSE)
Date	23/11/2015 – 18/12/2015

Professional, Academic, Scientific Context	<p>Athol J. Carr graduated from the University of Canterbury with a Bachelor in Engineering (First Class Honours) (Civil) in May 1964. After working as a design engineer in New Zealand he went to the University of California, Berkeley, and completed a Master of Science in Engineering (in Structural Engineering) in May 1966 and a Doctor of Philosophy (in Structural Engineering) in May 1967. Both degrees were under the supervision of Professor Ray W. Clough. Dr. Carr joined the Department of Civil Engineering at the University of Canterbury in January 1968. Here he has pursued research and teaching interests in structural engineering, with an emphasis on computer based methods of analysis, structural dynamics and in finite element analyses. Since the early 1970s he has been actively involved in earthquake engineering, non-linear dynamic analyses and in software engineering.</p>
Current Appointment and Activities in the past 5 years, relevant to the field of the course	<ul style="list-style-type: none"> • Director, Carr Research Ltd., 2015 – Present, Christchurch New Zealand • Development of Ruaumoko Suite of Non-linear Dynamic Analysis programs • Professor Emeritus, University of Canterbury, January 1968 – Present
Publications (Max. 5 of the last 2 years)	<p>Puthanpurayil, A.M., Carr, A.J. and Dhakal, R.P. (2014) “<i>A generic time domain implementation scheme for non-classical convolution damping models.</i>” <i>Engineering Structures</i> 71: 88-98. http://dx.doi.org/10.1016/j.engstruct.2014.04.021. (Journal Articles)</p> <p>Chey, M.H., Chase, J.G., Mander, J. and Carr, A. (2013) “<i>Innovative seismic retrofitting strategy of added stories isolation system.</i>” <i>Frontiers of Structural and Civil Engineering</i> 7(1): 13-23. http://dx.doi.org/10.1007/s11709-013-0195-9. Access via UC Research Repository. (Journal Articles)</p> <p>Peng, B.H.H., Dhakal, R.P., Fenwick, R.C., Carr, A.J. and Bull, D.K. (2013) “<i>Multi-Spring Hinge Element for Reinforced Concrete Frame Analysis.</i>” <i>ASCE Journal of Structural Engineering</i> 139(4): 595-606. http://dx.doi.org/10.1061/(ASCE)ST.1943-541X.0000690. (Journal Articles)</p> <p>Giorgini, S., Cubrinovski, M., Pampanin, S., Carr, A.J. and Moghaddasi, M. (2012) “<i>Integrated foundation-structure modelling of a case study from the Christchurch 2011 earthquake.</i>” Lisbon, Portugal: 15th World Congress on Earthquake Engineering (15WCEE), 24-28 Sep 2012. http://www.iitk.ac.in/nicee/wcee/article/WCEE2012_3580.pdf. (Conference Contributions - Papers in published proceedings)</p> <p>Moghaddasi, M., Chase, J.G., Cubrinovski, M., Pampanin, S. and Carr, A. (2012) “<i>Sensitivity analysis for soil-structure interaction phenomenon using stochastic approach.</i>” <i>Journal of Earthquake Engineering</i> 16(7): 1055-1075. http://dx.doi.org/10.1080/13632469.2012.677570. Access via UC Research Repository. (Journal Articles)</p>