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Professor Sloan is an ARC Federation Fellow and the founding director of the Newcastle Priority Research Centre for Geotechnical and Materials Modelling. He is an elected Fellow of the Australian Academy of Science and the Academy of Technological Sciences and Engineering. His research contributions have been recognised by the award of the 2000 Telford Medal by the Institution of Civil Engineers London (for the best overall paper), the 2003 E H Davis Lecture by the Australian Geomechanics Society (for outstanding contributions to theoretical geomechanics), a Centenary Medal in 2003 (for service to Australian Society in Civil and Geotechnical Engineering), a 2004 Federation Fellowship by the Australian Research Council (one of 10 awarded to Australian residents), the 2005 Desai Medal by the International Association for Computer Methods and Advances in Geomechanics (for outstanding contributions to computational geomechanics), the 2005 Thomas A Middlebrooks Award by the American Society of Civil Engineers (for a paper of special merit in the field of geotechnical engineering), and the 2007 Telford Premium by the Institution of Civil Engineers London (for the best paper on applied mechanics). Professor Sloan is an editor of the international journal *Computers and Geotechnics* and a member of the editorial board for *Computational Mechanics*, *Computers and Structures*, the *International Journal for Numerical and Analytical Methods in Geomechanics*, *Optimization and Engineering* and *Engineering Computations*. His research interests include computational limit and shakedown analysis, nonlinear finite element algorithms, modelling unsaturated soil behaviour, nonlinear optimization methods, and georemediation.