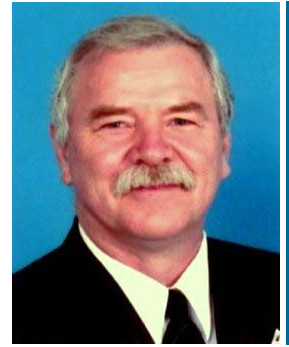


A/Prof. Raphael Grzebieta



Position: Associate Professor
Dept. Civil Engineering, Monash University

Expertise: Vehicle & Structural Crashworthiness, Crash & Incident Investigations & Reconstruction, Human Injury Prevention, Crash & Laboratory Testing, Computer Simulation of Crashes, Impacts & Injury Mechanisms, Structural Impact and Stress Engineering

B.E (Hons 1), M.Eng.Sci., PhD (Monash), FIEAust, CPEng., (NPER), MSAEA, MSAE

Raphael Grzebieta graduated in 1979 with BE (Hons) and MEngSci degrees from Krakow Technical University, Poland and a PhD in 1990 from Monash University, Australia. He holds a title of Associate Professor in the Department of Civil Engineering at Monash University, where he heads up Civil Engineering's road-safety, crashworthiness and rapid loading research team and supervises PhD and project students. He has over 150 publications in structural crashworthiness research, accident investigation, road safety, road and infrastructure design, injury causation and biomechanics, failure analysis, numerical modelling and experimental testing of a variety of structures subjected to impact and large deformation loads.

He has carried out over 100 in-depth crash investigations and accident reconstruction analyses and acted as an expert for various insurance companies, legal firms and for Coroner's. He has provided expert evidence, both in and out of court, in vehicle-related litigation, criminal prosecutions and Coronial Inquests. He has also been involved in major projects for the Australian Defence Department, VicRoads, Telstra, Victorian WorkCover Authority, and a number of private Engineering firms. Projects have included vehicle rollover, vehicle safety, roadside safety, go-kart crashes, industry and construction safety. Raphael was also a Principal and Founding Director of DVExperts International P/L and Monash Professional Group P/L, a director of the CSIR Ski Club P/L and is currently a Director of Professional Engineering Consultants P/L.

The university-based research team he heads up has carried out over 30 crash tests and numerous computer modelling and theoretical studies investigating and mitigating injuries in truck under-run, far-side impact, rollover, roadside barrier crashes and industrial work places. Raphael has supervised to completion 8 PhD, 3 MEngSci students and is currently supervising/co-supervising 5 PhD's in the area of vehicle crashworthiness, injury biomechanics and rapidly loaded and grossly deforming steel structures. He developed and taught the most rigorous and theoretically demanding subjects in Civil Engineering for over 20 years. His research work has attracted around \$2.5 million in ARC grants and a further \$2 million in other contract research work to the Department.

Raphael was President of the Australasian College of Road Safety from 2003 to 2006 and is still a member of the ACRS executive committee as Past President. He is also a member of a number of road safety, editorial, journal and standards committees. Raphael is regularly interviewed by radio and TV media and has appeared in science programs (twice on ABC's Catalyst) in relation to road safety and crash testing. He has also chaired a number of international conferences and given numerous invited public lectures and keynote papers. His international network in vehicle and roadside crashworthiness is extensive. In 2004, Dr Grzebieta was awarded the 2003 Warren Medal by the Institution of Engineers Australia, as co-author of the papers "Crashworthiness Systems - A Paradigm Shift in Road Safety Design", Parts I & II.

Professional Experience

Department of Civil Engineering, Monash University, 1982 to present

- Associate Professor – *Oct 2005 to present*
- Associate Professor (tenured) – *January 2000 to Oct 2005*
- Senior Lecturer (tenured) - *January 1992 to December 1999*
- Lecturer (tenured) - *April 1986 to December 1991*
- Senior Tutor - *September 1982 to April 1986*

Control Data Aust. Pty. Ltd, 1980 to 1982

- Engineering Support Analyst

Keogh Woods and Partners Pty. Ltd, 1973

- Junior Engineer

Directorships:

Professional Engineering Consultants Pty Ltd. 1995 to Present

- Director and Consulting Forensic & Road Safety Engineer

DVExperts International Pty Ltd (DVE), 2002 to August 2006

- Director, Founding Partner, and Principal Forensic & Road Safety Engineer

CSIR Ski Club Pty Ltd, 1999 - 2003

- Director and Assistant Secretary

Monash Professional Group Pty Ltd (MPG), 1990 to 1994

- Director, Founding Partner, and Consulting Engineer

Expert Consulting and Industry and Government Contracts:

Co-consultant and designer in major projects for the Australian Defence Department, VicRoads, Telstra, Victorian WorkCover Authority, as well as a number of private Engineering firms. Projects have included vehicle rollover, vehicle safety, roadside safety, industry and construction safety. Expert witness accident investigations and reconstructions for numerous legal firms and government institutions: Henry Davis York, Mallesons Stephen Jacques, Minter Ellison, Slater and Gordon, WorkCover Authority, TL Lawyers, Macpherson & Kelly Lawyers, Sparke Helmore, TAC Law, Stringer Clarke, BHP, Abbott Tout Solicitors, Victorian Dept. Public Prosecutions, Coronial Inquests (Melbourne and Wollongong), and private individuals. Cases involved: car crashes; pedestrian impacts; truck crashes; rollovers; cyclist impacts; motorcycle crashes; roadside barrier crashes; go-kart crashes; train, tram and bus crashes; fall from heights incidents (work and playground); crane and hoist failures; machinery failures; OHS related impact injuries; etc.

Design and Computer Simulation:

Computer modelling of falls from height, cycling impacts, roadside barriers, truck under-run barriers, seat restraint systems, side impact crashes; stress analysis of petroleum tankers, dry bulk cement trucks, outrigger stabilisers for crane vehicles; Go-Kart crashes into barriers; stress analysis of structural cranes for multi-storey constructions; stress analysis of man and materials hoists; analysis of step ladder failure; roll-over simulation of army 4WD vehicle; design of roll-over bar for defence department; design of pedestrian impact compatible bullbar; design of frangible utility pole; and assessment of seat belt and hydraulic system in excavator roll-over.

Laboratory and Crash Testing:

Carried out over 30 vehicle crash tests, numerous injury related laboratory tests and numerous computer modelling and theoretical studies investigating and mitigating injuries in road safety and fall injuries. Road safety includes truck under-run, far-side impact, rollover, roadside barrier crashes and industrial work places. Fall injuries include stunt bag falls, All Terrain Farming Vehicles, fall from playground equipment, elderly falls related to hip fracture, and fall from industrial roofs and lifts. Crash testing includes cars into roadside safety barrier systems; crash testing of cars in frontal crashes, side impact and rear end impacts; crash testing of security bollards; testing of roll-over bars for earth-moving and agricultural machinery; testing and analysis of BMW anti-intrusion side door beam; testing of seat belt demonstration rig for RACV; testing of air crash cushion system for car and motorcycle racing; testing of pedestrian impact compatible bullbar; testing of bus frames for rollover; testing of support form work for building and construction; and materials testing.

Impact on Industry & Community

Member steering committee CE/33 revision of AS/NZ 3845 Road Safety Barriers (now to include all road furniture, signage, poles, etc); served as President Australasian College of Road Safety 2003 – 2006; Editor-in-Chief Peer Review of Journal of the Australasian College of Road Safety; Member Federal Government's

Australian Transport Safety Bureau's Road Safety Strategy Panel representing the Australasian College of Road Safety and the Australian Institution of Engineers Australia; Member USA's AFB 20 (2) International Research Committee for Road Safety Barriers (NCHRP350); Featured as one of Australia's Leading Road System Safety Experts in AusRAP Australian Road Assessment Program produced by Images Online for Australian Automobile Association; Featured in ABC Catalyst Science Program on Roadside Barriers and in Department of Education Year 12 Physics Training Video; Current publications H impact factor of 6 (equal second in Department of Civil Engineering); Numerous and regular interviews by TV, Radio and newspaper media and science programs; Presented to Victorian Parliamentary Committees on Road Safety; Presented expert evidence to five Coronial Inquests; Presented over 10 Keynote and Invited Lectures.

Research and Other University Related Activities:

Co-chief investigator Australian Research Council projects in area of vehicle occupant protection, injury biomechanics, structural crashworthiness and gross deformation of steel structures totalling over \$2.5 million from 1986 to present; Industry funding of research projects involving grossly deforming structures, crashworthiness and blast-loaded structures has to date totalling in excess of \$2 million; Supervised to successful completion 8 PhD's and 3 Masters Postgraduates; Published over 150 papers; Taught Civil Engineering's hardest Undergraduate and Postgraduate Courses for 23 years; Presented over 50 conference papers.

Academic & Professional Qualifications

IEAust Nationally Registered Professional Engineer (Civil – NPER)

Chartered Professional Engineer (CPEng)

MONASH UNIVERSITY (Melbourne)

PhD, 1990

UNIVERSITY OF CRACOW (Poland)

M. Eng. Sci. (Mag.) – Grading: very good, 1979

B.E. (Inz. Hons 1), 1978

OTHER RELEVANT TRAINING COURSES (Examined)

- University of North Florida - Advanced Accident Reconstruction (Institute of Police Technology and Management), 2002.
- Technical Accident Investigation & Reconstruction, Society of Automotive Engineers Australia, 1999.

Professional Memberships

Fellow of the Institution of Engineers Australia (FIE Aust)

Associate Fellow of the Australasian College of Road Safety

Member Society of Automotive Engineers, US (MSAE)

Member Society of Automotive Engineers, Australia (MSAEA)

Member Australasian & South Pacific Association of Collision Investigators, Australia

Committee Appointments

President (2003 – 2005) and Executive Member of the Australasian College of Road Safety (Currently 2006 serving as Immediate Past President)

Member of the Australian Transport Safety Bureau National Road Safety Strategy Panel (representing both the Australasian College of Road Safety and the Institution of Engineers Australia)

Corresponding Member Institution of Engineers National Committee on Transport

Member Australian/NZ Standards Committee CE/33 (AS/NZS 3845) Road Safety Barrier Systems

Member Aus. Standards Committee CS/75 Automotive Occupant Restraints

Member Aus. Standards Committee CE/85 Automotive Child Restraints

Member Aus. Standards Committee ME/83 Motor Vehicle Frontal Protection Systems

Member Aus. Standards Committee ME/83-01, ISO Australian Reviewing Committee ISO/TC22/SC10 Impact Test Procedures

Past Chairman Structural Branch Victoria (state) Division Inst. Engrs. Aust.

Past Chairman Road-Safety Sub Committee Victoria Division Inst. Engrs. Aust.

Past Chairman and Continuing Executive Member Victorian Chapter of the Australasian College of Road Safety

Past Member Transport Branch Victoria (State) Division Institute of Engineers Australia

Member USA AFB 20 (2) International Research Committee for Road Safety Barriers (NCHRP350)

Media Editorials, Interviews & Science Programs

ABC TV Interview 7.30 Report Maxine McKew - January 2006

see <http://www.abc.net.au/7.30/content/2006/s1541955.htm>

Editorial: Timely departure – Weekend Australian January 09, 2006

http://www.theaustralian.news.com.au/common/story_page/0,5744,17763012%255E7583,00.html

Sydney Herald Sun Newspaper Interview – Our Roads to Ruin -- January 2006

<http://www.dvexperts.net/pubs/1.pdf>

The Sydney Morning Herald Interview - High but not so mighty- - Tuesday March 1

2005 <http://www.drive.com.au/editorial/article.aspx?id=9336&vf=2&bg=1&pp=1>

Catalyst ABC science show - Crash Barrier – March 2004

<http://www.abc.net.au/catalyst/stories/s1063690.htm>

Sydney Morning Herald Newspaper Interview - The right to drive is not a right to kill –

May 2005 <http://www.smh.com.au/news/Opinion/The-right-to-drive-is-not-a-right-to-kill/2005/05/18/1116361614901.html>

TV current affairs Today Tonight Interview - Road hogs: 4WD safety fears – Channel 7 –

September 2004 <http://seven.com.au/todaytonight/story/?id=16570>

TV current affairs Today Tonight Interview – Vehicle Safety – Channel 7 – May 2005

Newspaper interview – The Detroit News – April 2004

<http://www.autosafety.org/article.php?scid=176&did=905>

Newspaper Interview – The Age - Marking the front line in the war on crashes, Jan

20th 2004. <http://www.theage.com.au/articles/2004/01/19/1074360691640.html>

Monash News – Road Safety - It's a Matter of Design, September 2004.

Catalyst ABC science show - High Speed Impact: The Hidden Toll - October 2002

<http://www.dvexperts.net/pubs/s715056.pdf>

Editorial – The Age - Cutting the Carnage – July 2002

<http://www.theage.com.au/articles/2002/07/20/1026898930044.html>

Editorial - Designs for Death, Herald Sun, April 2002.

Editorial – Deadly Design - We Can Build Roads That Can Eliminate Death - Herald Sun, March 2002.

Keynote & Invited Presentations

1. Keynote Presentation, *Tram and Rail Crashworthiness Principles*, APSN (Advanced Passive Safety Network) Joint Workshop Combining Workshop on Energy Absorbing Structures and Materials in Railway and Aerospace and Annual Workshop on Material Testing and Joint Modelling, ECE Committees WP5.5 Non-Road Safety & WP4.4 Materials and Structural Crashworthiness, Athens, Greece, July 2006
2. Invited Presentation, *Cycling – How Safe Is It?*, Pedestrian and Cycling Conference, National Conference Australasian College of Road Safety, National Conference, Melbourne, June 2006.
3. Invited Presentation, *Better Road Design for Lower Severity Traffic Accidents*, The ARF National Roads Summit 2006, Australian Road Forum, Darling Harbour, Sydney, May 2006.
4. Invited Presentation, *The DROP research program: Dynamic Rollover Protection*, Road Safety: From Local to Global Perspectives, Parliament House, Sydney, April 2006.
5. Keynote Presentation, *Vehicle and Road Infrastructure Crashworthiness*, Queensland Road Safety Summit, Department of the Premier, Parliament House, Brisbane, February, 2006.
6. Keynote Presentation, *Road Safety in Victoria*, Symposium on Road Safety, Fiji, Dec. 2005.
7. Keynote Presentation, *Overview Victorian Road Safety Strategy*, International Symposium on Road Safety, Wuxi, China, Nov. 2005.
8. Invited Presentation, *Roadside Barriers – A Holistic Approach*, Road Safety Seminar, Society of Automotive Engineers, Melbourne, August, 2005.
9. Australia/NZ Roadside Safety Barrier One Day Seminar Series, Australasian College of Road Safety (Melb., Sydney, Brisbane, Adelaide, Wellington, Perth), 2004 - 2005.
10. Keynote Presentation Series: *Blackspot Program in Australia; Road Crash Investigation - First Response; Crashes Involving Roadside Hazards & Barriers; Road Safety is not an Accident; Vehicle Crashes and Road Safety – Are Zero Fatalities and Serious Injuries a Reality*, International Symposium on Road Safety, Wuxi, China, 2004.
11. Invited Presentation, *Vehicle Aggressivity and Road Furniture*, Road Safety Seminar, Society of Automotive Engineers Australia, September 2004.
12. Invited Presentation, *Vehicle Rollover Crashworthiness*, New Car Assessment Program (NCAP) and Vehicle Occupant Vulnerability in Incompatible Vehicles Seminar, Mills Point, Sydney, September 2003.

13. Keynote Presentation, *Commercial Vehicles in Australia – Fleet, Accident Statistics, Crash Tests*, 3rd DEKRA Symposium, Passive Safety of Commercial Vehicles, Neumunster, Germany, October 2002.
14. Keynote Presentation, *Paradigm Shift in Road Safety Thinking*, “Aus Top Tec” Topical Technical Symposia, Invited Presentation Society of Automotive Engineers Australia, Melbourne, August 1999.

Also presented over 50 conference & symposia presentations.

Conference, Symposium, Seminar Organisation & Proceedings Editorship

1. Co-organiser USSAE Toptek Crashworthiness of Military and Emergency Vehicles, Phoenix, USA, 2001.
2. Co-organiser, Avoiding Disasters: Engineering, Technology and The Law, International Conference and Workshop, Prato, Italy, 2003.
3. Co-Chairman & Proceedings Co-Editor International Crashworthiness Conference (ICRASH 2002), 2002.
4. Chairman & Proceedings Co-Editor International Symposium on Impact and Plasticity (IMPLAST 2000), September 2000.
5. Chairman & Proceedings Co-Editor Conference on Pedestrian Safety, Australian College of Road Safety, June 1998.
6. Organiser & Chief Editor 15th Aust Conf. on Mechanics of Structures and Materials, December 1997.
7. Organising Committee 2nd Int. Conf. on Accident Investigation, Reconstruction, Interpretation and Law, October 1997.
8. Chairman & Chief Editor First Australasian Congress on Applied Mechanics, February 1996. (now 6th Congress to be run)
9. Chairman & Chief Editor 2 day Seminar - Vehicle Accidents their Cause, Reconstruction and the Law, July 1995.
10. Organiser Seminar on Structural Crashworthiness and Property Damage Accidents, August 1987.

Awards

Warren Medal, Institution of Engineers Australia, as co-author of the papers "Crashworthiness Systems - A Paradigm Shift in Road Safety Design", Parts I and II, 2003.

Society Of Automotive Engineers International, Recognition Award as Organiser Military and Emergency Vehicles Safety TOPTEC, Tempe Arizona, USA.

Certificate of Appreciation, The Seimen's Science Experience, Siemens Science School Foundation, January, 2003.

Certificate of Appreciation, Plastics for Safer Vehicles Technical Seminar, SPE: A-NZ Section Inc., 8th March, 2005.

Institute of Transport Engineers, Certificate of Commendation, Road Safety Conference, 1999.

Society of Automotive Engineers (SAE) Australia, Certificate of Appreciation for Commitment, Contribution & Support to Young Engineers Conference, 1998.

Teaching

Monash University Department of Civil Engineering since 1982: Lectured and managed numerous university undergraduate and postgraduate courses; Finite Element Analysis, Stress Analysis, Structural Analysis, Inelastic (plastically deforming) Structures, Advanced Computational Analysis. Currently supervising 4 PhD students. Supervised 7 PhD and 2 Masters graduates and over 80 final year project students.

RMIT University since 2004, School of Aerospace, Mechanical and Manufacturing Engineering since 2004: Lecture Series (12 Lectures) on Road Safety, Vehicle Crashworthiness Design, Road Infrastructure Crashworthiness Design & Forensic Engineering to 4th year engineers design students.

Recent Grants Received

Australian Research Grants received 2000-2006 (more ARC & other grants prior to 2000)

Category	Project Title	Names of CI's	Years of Funding	Total Income
ARC Discovery	Protecting Occupants in Vehicle Rollover Crashes	R H Grzebieta, M. Bambach & A. McIntosh	2006-08	410
ARC Discovery	Thin-Walled Structures subjected to Impact and Blast Loading	R H Grzebieta, X.L. Zhao	2004-06	270
ARC Linkage Project	High Strength Steel Protection Bollards	R H Grzebieta, X.L. Zhao	2004-06	85
ARC Linkage Infrastructure	Testing facility for heavily loaded bridge and barrier systems	R H Grzebieta,, X.L. Zhao, R. Almahaidi, B Melchers, P Mendis, G Lu, S Setunge	2002	965
ARC Large	Behaviour of Road Side Furniture utilising Thin-Walled Structures	R.H. Grzebieta, X.L. Zhao and Tingvall C.	2001-03	240
ARC Large	Tubular Steel Members and Connections under High Amplitude Dynamic Loading	P. Grundy, X.L. Zhao, R.H. Grzebieta	1999-2001	190

Publications

Over 150 published scholarly works relating to vehicle and road infrastructure crashworthiness, vehicle occupant protection, grossly deforming steel structures and applied mechanics. (Articles can be supplied on request).

Peer Review Papers Editor of the Journal of the Australasian College of Road Safety

On editorial board of:

- International Journal of Structural Crashworthiness
- Australian Journal of Structural Engineering
- The Electronic Journal of Structural Engineering

Contact Details:

A/Prof. Raphael Grzebieta
Department of Civil Engineering
PO Box 60
Monash University 3800

Phone: (03) 9905 4970 (+61 3 9905 4970 International)

Mobile: 041 123 4057 (+61 4 1123 4057 International)

Fax: (03) 9905 4944 (+61 4 9905 4944 International)

Email: raphael.grzebieta@eng.monash.edu.au

Web: <http://civil.eng.monash.edu.au/expertise/structures/crs>

List of Publications, Articles & Selected Other works

Proceedings, Special Issue Journal Editions & Books

1. Zhao, X.L. and Grzebieta, R.H., Special Issue International Journal of Impact Engineering, Seventh International Symposium on Structural Failure and Plasticity (IMPLAST 2000), Pergamon, Oxford, ISSN 0734-743X, V27 No.9, October 2002.
2. Zhao, X.L. and Grzebieta, R.H., Special Issue on Thin-Walled Steel Tubes, Pergamon, Oxford, ISSN 0263-8231, V40 No2, February 2002.
3. Zhao, X.L. and Grzebieta, R.H. (2002), International Journal of Mechanical Science, Vol.44, No. 6
4. McInerny R., Dunjey M., and Grzebieta R.H., Frangible Sign Supports, Part 1: Recommended Procedures for Design, Testing, Installation and Maintenance, Part 2: State of the Art Review, Austroads, ISBN 0 85588 614 5, 2002.
5. Grzebieta, R.H. and Chirwa E.C., *Proceedings ICRASH2002, 3rd International Crashworthiness Conference*, Society of Automotive Engineers Australia, Melbourne, February 2002.
6. Rechnitzer G.R., Grzebieta R.H., Richardson S. and Levick N., *Proceedings Military and Emergency Vehicle Safety TOPTEC*, SAE International, Tempe, Arizona, USA, Sept 11-12, 2001.
7. Zhao, X.L. and Grzebieta, R.H., *Proceedings 7th International Symposium on Structural Failure and Plasticity*, IMPLAST 2000, Pergamon, Oxford, UK, ISBN: 008043875X, 2000.
8. Smith K.P., Aitken B.G., Grzebieta R.H., *Proceedings Conference on Pedestrian Safety (Melbourne)*, Australian College of Road Safety, Canberra, Australia, ISBN 09585691, June 1998.
9. Grzebieta R.H., Al-Mahaidi, Wilson J., *Proceedings 15th Australasian Conference on the Mechanics of Structures and Materials*, Balkema, Rotterdam, ISBN 9054109009, December, 1997.
10. Grzebieta, R.H., Wong, A.K. Marco, J. and Lam, Y.C. (1996). *Proceedings First Australasian Congress on Applied Mechanics*, Institution of Engineers Australia, Melbourne, ISBN 0 85828 634 7, December 1996.
11. Grzebieta R.H., and Grundy P. *Proceedings Impact, Earthquake and Blast Loading*, Japan Australia One Day Joint Seminar, Dept. Civil Engineering, November, 1996.
12. Grzebieta, R.H., de Forest R., Rechnitzer G. (1995). *Vehicle Accidents - Their Cause, Reconstruction and Law*, Proceedings seminar held at Old Melbourne Hotel, Dept. Civil Engineering, ISBN 073260869, Melbourne, Australia.

13. Murray N. W. and Grzebieta R.H. "*Structural Crashworthiness and Property Damage Accidents*", Proceedings of seminar held at Monash University, ISBN 086746772X, August, 1987.

Papers Published

14. Richardson S., Grzebieta R.G., Jiang T. & Rehnitzer, Simulation of Vehicle Lateral Side Impacts With Poles to Estimate Crush and Impact Speed Characteristics, Journal of the Australasian College of Road Safety, Nov., 2006
15. Grzebieta R.H., Short A., Rehnitzer G. R. And Richardson S., The determination of seatbelt wearing in crashes with high intrusion: load marks and belt wearing issues, Proceedings 5th Int. Crashworthiness Conf. ICRASH2006, Bolton Institute U.K., Athens, Greece, July 2006.
16. Young D., Grzebieta R.H., Rehnitzer G., Bambach M. & Richardson S., Rollover Crash safety: Characteristics and issues, Proceedings 5th Int. Crashworthiness Conf. ICRASH2006, Bolton Institute U.K., Athens, Greece, July 2006.
17. Andrew S., Grzebieta R.H., George R. and Arndt N., Bicyclist with Pedestrian Impacts, Proceedings 5th Int. Crashworthiness Conf. ICRASH2006, Bolton Institute U.K., Athens, Greece, July 2006.
18. Jama H., Michael B., Grzebieta R. & Zhao X.-L., Numerical Modelling of Simply Supported Square Tubular Beams Subjected to a Uniform Blast Load, 19th Australasian Biennial Conference on the Mechanics of Structures and Materials, University of Canterbury, Christchurch, New Zealand, November 2006.
19. Jama H., Nurick G., Bambach M., Grzebieta R. & Zhao X.-L. "Failure Modes and Thresholds of Square Tubular Steel Beams Subjected to Blast Loads" in the 2nd International Conference on Design and Analysis of Protective Structures, Singapore, 13th -15th Nov 2006.
20. Jama H., Michael B., Grzebieta R. & Zhao X.-L., Flexural Response Of Fixed-Ended Tubular Steel Beams Strengthened With CFRP Subjected To Impact Loads, 8th Int. Conference on Steel and Composite Structures, Kuala Lumpur, Malaysia, May 2006.
21. Haedir J., Bambach M.R., Zhao X.-L. and Grzebieta R., Bending Strength Of CFRP-Strengthened Circular Hollow Steel Sections, Third International Conference on FRP Composites in Civil Engineering (CICE 2006), December 13-15 2006, Miami, Florida, USA
22. Zou R., Grzebieta R.H. and Richardson S., Madymo Simulation Of Rear Seated Occupant In Frontal Impacts, MADYMO Users Conference, 2006, Melbourne.

23. Bambach M., Halls T., Pollard A., Grzebieta R. and Zhao X-L., (2005) Fixed Ended Square Hollow Section Beams Under Transverse Impact, Proceedings 6th Asia-Pacific Conference on Shock & Impact Loads On Structures, Perth, Australia.
24. Grzebieta R.H., Zou R., Jiang T., and Carey A., Roadside Hazard and Barrier Crashworthiness Issues Confronting Vehicle and Barrier Manufactures and Government Regulators, *Proc. 19th International Technical Conference on the Enhanced Safety of Vehicles*, Washington, USA, June 2005.
25. Grzebieta R.H., Zou R., Jiang T., and Carey A., Road safety Barriers: Present And Future Developments, *Proceedings Victorian Roads Conference 2005*, Melbourne, April 2005.
26. Zou R., Grzebieta R.H. and Richardson S., Rear Seated Occupant Safety in Frontal Impacts *Proc. 19th International Technical Conference on the Enhanced Safety of Vehicles*, Washington, USA, June 2005.
27. Berg A., Rücker P., Gärtner M., König J., Grzebieta R.H., Zou R., Motorcycle Impacts to Roadside Barriers – Real World Accident Studies and Crash Tests Carried out in Germany and Australia, *Proc. 19th International Technical Conference on the Enhanced Safety of Vehicles*, Washington, USA, June 2005.
28. Rechnitzer G., Richardson S., Grzebieta R., "How To Reduce the Road Toll", *Safety In Australia*, Vol. 26 No. 3, December 2004.
29. Grzebieta R., The Road Toll - To Get Rid Of It Permanently We Must Engineer It Down, 2004 Year Book of the Australasian College of Road Safety.
30. Zou R., Grzebieta R.H. and Richardson S., Tank Instructor Module Crash Simulation, *IJCrash 2004* Vol. 9 No. 5 pp. 505-514 (also published in *Proceedings 4th Int. Crashworthiness Conf. ICRASH2004*, ed. Chirwa E.C. and F. Bandak, Bolton Institute U.K., San Francisco, July 2004).
31. Elchalakani M., Zhao X. L. and Grzebieta R. H., Cyclic Bending Tests to Determine Fully Ductile Section Slenderness Limits for Cold-Formed Circular Hollow Sections, *Journal of Structural Engineering*, Vol. 130, No. 7, July 1, 2004.
32. Elchalakani M., Zhao X. L. and Grzebieta R. H., Concrete-filled steel circular tubes subjected to constant amplitude cyclic pure bending, *Engineering Structures*, Volume 26, Issue 14, December 2004, Pages 2125-2135
33. Jiang T., Grzebieta R. H. and Zhao X. L. Predicting impact loads of a car crashing into a concrete roadside safety barrier, *Int. J. of Crash.*, Vol.9 No. 1, 2004.
34. Grzebieta R., Carey A., Zou R., Jiang T., Cameron J. and Powell C., Predicting Lateral Deflection of a Water Ballasted W-Beam Barrier, *Proceedings 4th Int.*

- Crashworthiness Conf. ICRASH2004, ed. Chirwa E.C. and F. Bandak, Bolton Institute U.K., San Francisco, July 2004.
35. Grzebieta R., Zou R. and Rechnitzer G., Go-Karts - Can they be Crashworthy?, Proceedings 4th Int. Crashworthiness Conf. ICRASH2004, ed. Chirwa E.C. and F. Bandak, Bolton Institute U.K., San Francisco, July 2004.
 36. Zou R. and Grzebieta R.H., High Performance Safety Bridge Barrier Impacts, Proceedings 4th Int. Crashworthiness Conf. ICRASH2004, ed. Chirwa E.C. and F. Bandak, Bolton Institute U.K., San Francisco, July 2004.
 37. Rechnitzer G., Richardson S. McIntosh A. and Grzebieta R.H., Crashworthiness Improvements for Light and Heavy Rail – Lessons Learnt from Crash Investigations, Proceedings 4th Int. Crashworthiness Conf. ICRASH2004, ed. Chirwa E.C. and F. Bandak, Bolton Institute U.K., San Francisco, July 2004.
 38. Jiang T., Grzebieta R.H. and Zhao X.L., Impact Performance of W-Beam Safety Barrier Systems, Proceedings 4th Int. Crashworthiness Conf. ICRASH2004, ed. Chirwa E.C. and F. Bandak, Bolton Institute U.K., San Francisco, July 2004.
 39. Richardson S., Jiang T., Grzebieta R.H. and Rechnitzer G., Vehicle Lateral Side Impacts with Poles – A Review and Analysis, Proceedings 4th Int. Crashworthiness Conf. ICRASH2004, ed. Chirwa E.C. and F. Bandak, Bolton Institute U.K., San Francisco, July 2004.
 40. Arndt N. and Grzebieta, R.H. Lower extremity injuries in side-impact vehicle crashes, *International Journal of Crashworthiness*, V.8 No.5, pp. 1–17, 2003.
 41. Richardson S.A., Rechnitzer G., Grzebieta R.H., Methodology for Estimating Vehicle Rollover Propensity That Combines Stability Factor and Handling Metrics, *Proc. 18th International Technical Conference on the Enhanced Safety of Vehicles*, Nagoya, Japan, May 2003.
 42. Jiang T., Grzebieta R.H., Rechnitzer G., Richardson S. and Zhao X.L., Review of Car Frontal Stiffness Equations for Estimating Vehicle Impact Velocities, *Proc. 18th International Technical Conference on the Enhanced Safety of Vehicles*, Nagoya, Japan, May 2003.
 43. Arndt N., Grzebieta R.H. and Zou R., Validating lower limb injury mechanisms in side impact crashes, *Proc. 18th International Technical Conference on the Enhanced Safety of Vehicles*, Nagoya, Japan, May 2003.
 44. Richardson S., Grzebieta R.H. and Rechnitzer G., Proposal for a dynamic rollover protective system test, *IJCrash 2003 Vol.8 No 2 pp. 133-141* (also published in Proceedings ICRASH2002, 3rd Int. Crashworthiness Conf., ed. Grzebieta R.H. and Chirwa E.C., Society of Automotive Engineers Australia, Melbourne, February 2002).
 45. Richardson S.A., Rechnitzer G., Grzebieta R.H. and Hoareau E., An advanced methodology for estimating rollover propensity, *International Journal of*
-

Crashworthiness, Vol.8, No.1, 2003 (also published in Proceedings ICRASH2002, 3rd Int. Crashworthiness Conf., ed. Grzebieta R.H. and Chirwa E.C., Society of Automotive Engineers Australia, Melbourne, February 2002).

46. Elchalakani, M., Zhao, X.L., and Grzebieta, R.H. (2003), Tests of Cold-Formed Circular Tubular Braces under Cyclic Axial Loading, *Journal of Structural Engineering*, ASCE, Vol. 129, No.4, April.

47. Sherker S., Ozanne-Smith J., Rechnitzer G. and Grzebieta R.H. (2003), Development of a multi-disciplinary method to determine risk factors for arm fracture in falls from playground equipment, *Injury Prevention*, 2003, Vol. 9, pp.279-283.
48. Grzebieta, R. (2002). Crashworthiness design – It is all a matter of ductility, International workshop on impact and crashworthiness (IWIC2002), Swinburne University of Technology, Melbourne, December.
49. Jiang, T., and Grzebieta, R. (2002). Review of car frontal stiffness equations for estimating vehicle impact, International workshop on impact and crashworthiness (IWIC2002), Swinburne University of Technology, Melbourne, December.
50. Zou, R., Rechnitzer, G. and Grzebieta, R. (2002). “Modelling truck rear underrun barrier impacts”. International workshop on impact and crashworthiness (IWIC2002), Swinburne University of Technology, Melbourne, December.
51. Grzebieta R.H. and Rechnitzer G., Commercial Vehicles in Australia – Fleet, Accident Statistics, Crash Tests, Keynote Lecture, 3rd DEKRA Symposium, Passive Safety of Commercial Vehicles, Neumunster, Germany, October 2002.
52. Grzebieta R.H., Report on Go-Kart Crash (Nicole FRANKS), Flagstaff Hill, Wollongong, Coronial Inquest, 2002.
53. Elchalakani, M., Zhao, X.L., and Grzebieta, R.H. (2002), Bending Tests to Determine Slenderness Limits for Cold-Formed Circular Hollow Sections, *Journal of Constructional Steel Research*, 58 (11), 1407-1430.
54. Elchalakani, M., Grzebieta, R.H. and Zhao, X.L. (2002), Plastic Collapse Analysis of Slender Circular Tubes subjected to Large Deformation Pure Bending, *Advances in Structural Engineering – An International Journal*, Vol.5, No.4.
55. Elchalakani, M., Zhao, X.L., and Grzebieta, R.H. (2002), Plastic Slenderness Limits for Cold-Formed Circular Hollow Sections, *Australian Journal of Structural Engineering*, 3(3), 127-141.
56. Elchalakani, M., Zhao, X.L., and Grzebieta, R.H. (2002), Tests on Concrete Filled Double Skin (CHS outer and SHS inner) Composite Short Columns under Axial Compression, *Thin-Walled Structures*, 40(5), 415-441
57. Zhao, X.L., Grzebieta, R.H. and C. Lee (2002): Void Filled Cold-Formed RHS Braces subjected to Large Deformation Cyclic Axial Loading, *Journal of Structural Engineering*, ASCE, 128 (6), 747-753.
58. Zhao, X.L., Grzebieta, R.H. and Elchalakani, M. (2002), Tests of Concrete-Filled Double Skin (CHS Outer and CHS Inner) Composite Stub Columns, *Steel & Composite – An International Journal*, 2(2), 129-146.

59. Grzebieta R.H., Zou R., Corben B., Judd R., Kulgren A., Tingval C. and Powell C., Roadside Crash Barrier Testing, Proceedings ICRASH2002, 3rd International Crashworthiness Conference, ed. Grzebieta R.H. and Chirwa E.C., Society of Automotive Engineers Australia, Melbourne, February 2002.
60. Arndt N., Grzebieta R.H., Fildes B. and Sparke L., Lower Extremity Injuries in Side Impact Crashes, Proceedings ICRASH2002, 3rd International Crashworthiness Conference, ed. Grzebieta R.H. and Chirwa E.C., Society of Automotive Engineers Australia, Melbourne, February 2002.
61. Rechnitzer G. and Grzebieta R.H., The engineer's lament – Coroners can help reduce the road toll, In Quest: The Journal of the Australasian Coroners Society Inc., Ed. Johnstone G., Issue 1, ISBN 0-9581811-0-1, State Coroner's Office, Victoria, Australia, October 2002.
62. Jiang T., Grzebieta R.H., Zou R., Rundle G., and Powell C., Methods to predict dynamic performance of water-filled plastic barriers, Proceedings ICRASH2002, 3rd International Crashworthiness Conference, ed. Grzebieta R.H. and Chirwa E.C., Society of Automotive Engineers Australia, Melbourne, February 2002.
63. Zhao, X.L. and Grzebieta, R.H., Strength and Ductility of Concrete-Filled Double Skin (SHA inner and SHA outer) Tubes, *Thin-Walled Structures*, V. 40, pp 199-213, 2002.
64. Zhao X.L., Han B. and Grzebieta R.H., Plastic mechanism analysis of concrete-filled double-skin (SHS inner and SHS outer) stub columns, *Thin Walled Structures*, V. 40, I. 10, pp 815-833, Oct. 2002.
65. Zhao, X.L., Grzebieta, R.H., Ukur, A. and Elchalakani, M. (2002), Tests on Concrete-Filled Double Skin (SHS outer and CHS inner) Composite Stub Columns, ICASS'2002, Hong Kong, December 2002.
66. Grzebieta R.H., Thin Walled Members, Tubing, Spot Welding and Void Filling: A Technical Overview for Crashworthiness Design, *Proc. Military and Emergency Vehicle Safety* TOPTEC, SAE International, Tempe, Arizona, USA, Sept 11-12, 2001.
67. Grzebieta R.H. and Rechnitzer G. and Crashworthy Systems – a paradigm shift in road safety design (part II), *Transport Engineering in Australia*, IEAust, Vol. 7, Nos. 1&2, Dec 2001.
68. Milner B., Grzebieta R.H., Zou R. Theoretical Study of a Vehicle-Pole Impact, Proceedings Road Safety Research, Policing and Education Conference, CMO Monash University, ISBN 0-7326-2190-9, Melbourne, 2001.
69. Grzebieta R.H., Tingvall C. and Rechnitzer G., Geometric Compatibility in Near Side Impact Crashes, *Proc. 17th International Technical Conference on the Enhanced Safety of Vehicles*, Amsterdam, Netherlands, June 2001.

70. Zou R., Rechnitzer G. and Grzebieta R.H, Simulation of Truck Rear Underrun Barrier Impact, *Proc. 17th International Technical Conference on the Enhanced Safety of Vehicles*, Amsterdam, Netherlands, June 2001.
71. Richardson S, Grzebieta R.H. and Bellion P., Proposed $\frac{1}{4}$ turn metric to simulate rollover crashes, *Proc. 17th International Technical Conference on the Enhanced Safety of Vehicles*, 01-S6-W-99, Amsterdam, Netherlands, June 2001.
72. Grzebieta R.H., Cameron J., Carey A. and Zou R., Water-filled plastic safety barrier systems, *Road & Transport Research*, Vol.10, No.3, Sept., 2001.
73. Chen L, Grzebieta R.H., Zhao X.L., Cyclic Bending of Beams made from a Cold-Formed SHS C450 Tube, *Proc. 6th Pacific Structural Steel Conference*, Ed. Liu W. & Wang B., ISBN 7-5028-1952-5/TU.151 (2503), Seismological Press Beijing, 2001.
74. Elchalakani, M., Zhao, X.L. and Grzebieta, R.H. (2001): A Closed-form Solution For Elastic Buckling of Thin-Walled Unstiffened Circular Cylinders Under Pure Flexure, *The First International Conference on Steel and Composite Structures*, Pusan, Korea, June, 267-274.
75. Grzebieta R.H. and Zou R. (2001) Report on Road Side Barrier Crash Tests, Department of Civil Engineering, Monash University.
76. Zhao, X.L., Grzebieta, R.H. and Elchalakani, M. (2001): Tests of Concrete-Filled Double Skin Circular Hollow Sections, *The First International Conference on Steel and Composite Structures*, Pusan, Korea, June, 283-290.
77. Elchalakani, M, Zhao, X.L. and Grzebieta, R.H. (2001), Concrete-filled circular steel tubes subjected to pure bending, *Journal of Constructional Steel Research*, ISSN 0143-974X, Vol.57, Issue 11, pp 1141-1168.
78. Elchalakani, M, Zhao, X.L. and Grzebieta, R.H. (2001), Plastic Mechanism Analysis of Circular Tubes under Pure Bending, *International Journal of Mechanical Science*, Vol. 44, No. 6, pp. 1117-1143.
79. Zou R., Grzebieta R.H., Corben B., Tingval C., Safety Assessment of a Pipefence Barrier System Using Madymo Simulation, *Proc. Australian Madymo Users Meeting*, ADVEA Research, ISBN 0-9579209-0-3, Melbourne, 2001.
80. Grzebieta R.H. and Rechnitzer G., Vision Zero - *The need for crashworthy systems*, *Proc. 24th Australasian Transport Research Forum*, Zero road toll - A Dream or a Realistic Vision?, April, Hobart 2001.
81. Guillow S.R., Lu G. and Grzebieta R.H., Experimental Studies of Thin-Walled Circular Aluminium Tubes under Axial Loading, *Proc. 5th Asia Pacific Symp. on Advances in Engineering Plasticity and its Applications*, ed. Yu T.X., Sun Q.P., and Kim J.K., ISBN 0-87849-857-5, Vol.177-188, pp.739-744, Hong Kong, June, 2000.

82. Grzebieta R.H., Rechnitzer G., Tingvall C., Judd R., and Powell C., Vehicle Compatibility – Get the Geometry Right First, Proceedings Road Safety Research, Policing and Education Conference, CARRS-Q, QUT, Brisbane, pp. 507-513, 2000.
83. Zou R., Grzebieta R.H., Corben B., Tingval C., Crash Simulation Modelling of a Pipefence Barrier System, Proceedings Road Safety Research, Policing and Education Conference, CARRS-Q, QUT, Brisbane, pp. 637-642, 2000.
84. Corben B., Grzebieta R.H., Judd R., Kullgren A., Powell C., Tingvall C., Ydenius A. and Zou R., Interactions between guardrails, cars and passive safety systems, Proceedings Road Safety Research, Policing and Education Conference, CARRS-Q, QUT, Brisbane, pp. 643-648, 2000.
85. Guillow S.R., Lu G. and Grzebieta R.H., Quasi-Static Axial Compression of Thin-Walled Circular Aluminium Tubes, *Int. Journal of Mech Sci.*, 2001, 43 (9), 2103-2123.
86. Lee C., Grzebieta R.H., Zhao X.L., The Importance of Further Studies on the Capacity Evaluation of Concrete-Filled Steel Tubes under Large Deformation Cyclic Loading, (Proc. 7th Int. Symp.) Structural Failure and Plasticity - IMPLAST 2000, on Structural Failure and Plasticity, ed. Zhao X.L. and Grzebieta R.H., Pergamon, Oxford, UK, ISBN: 008043875X, Oct. 2000.
87. Elchalakani M., Zhao X.L. and Grzebieta R.H., Strength Ductility of Concrete Filled Circular Compact Steel Tubes under Large Deformation Pure Bending, (Proc. 7th Int. Symp.) Structural Failure and Plasticity - IMPLAST 2000, on Structural Failure and Plasticity, ed. Zhao X.L. and Grzebieta R.H., Pergamon, Oxford, UK, ISBN: 008043875X, Oct. 2000.
88. Cimpoeru S.J., Murray N.W. and Grzebieta R.H., A Large Deflection Design Technique for the Collapse and Roll-Over Analysis of Thin-Walled Tubular Frames, (Proc. 7th Int. Symp.) Structural Failure and Plasticity - IMPLAST 2000, on Structural Failure and Plasticity, ed. Zhao X.L. and Grzebieta R.H., Pergamon, Oxford, UK, ISBN: 008043875X, Oct. 2000.
89. Zhao X.L. and Grzebieta R.H., Strength and Ductility of Concrete Filled Double Skin Square Hollow Sections, (Proc. 7th Int. Symp.) Structural Failure and Plasticity - IMPLAST 2000, ed. Zhao X.L. and Grzebieta R.H., Pergamon, Oxford, UK, ISBN: 008043875X, Oct. 2000.
90. Grzebieta R.H. and Rechnitzer G., Tram Interface Crashworthiness, Proc. International Crashworthiness Conference - ICRASH 2000, ed. Chirwa E.C. and Otte D., London, UK, Sept. 2000.
91. Rechnitzer G., Grzebieta R.H., Brown G. and Schuster R., Effectiveness of Cargo Barriers to Protect Front Seat Occupants in Rear Impacts – Crash Test Evaluation, Proc. International Crashworthiness Conference - ICRASH 2000, ed. Chirwa E.C. and Otte D., London, UK, Sept. 2000 (also published in *Int. J. Crashworthiness*, Vol. 6, No.2, pp.141-154, 2001).

92. Hammond L. and Grzebieta R.H., Structural Response of Submerged Air-backed Plates by Experimental and Numerical Analysis, *J. Shock and Vibration*, Vol. 7, No.6, pp 333-341, 2000.
93. Hammond L. and Grzebieta R.H., The Requirement for Hydrostatic Initialisation in LS-DYNA/USA Finite Element Models, *J. Shock & Vibration*, Vol. 7, No.2, pp.57-65, 2000.
94. Zou R., Grzebieta R.H., Rundle G., Powell C., Development of a Temporary Water-Filled Plastic Barrier System, Proc. International Crashworthiness Conference - ICRASH 2000, ed. Chirwa E.C. and Otte D., London, UK, Sept. 2000.
95. Grzebieta R.H. and Zou R., A systems Approach to Designing Roadside Furniture for Single Vehicle Crashes, Proc. 6th International Conference Road Safety and Traffic Enforcement: Beyond 2000, Ed. Jraiw K., ISBN 0 646 38011 7, Sept. 1999.
96. Rechnitzer G. and Grzebieta R.H., Crashworthy Systems – a paradigm shift in road safety design, *Transport Engineering in Australia*, IEAust, Vol.5, No.2, Dec. 1999, (also presented and in proceedings of “Aus Top Tec” Topical Technical Symposia, Society of Automotive Engineers Australia, Melbourne, Aug 1999).
97. Grzebieta R.H., Rechnitzer G., Daly P., Little P. and Enever D., Crash Compatibility of Trams, Proceedings Road Safety Research, Policing and Education Conference, Australian Transport Safety Bureau, Canberra, Australia, November, 1999.
98. Grzebieta R.H., Tingvall C., Przychodski D. and Krafft M., Investigation into the Physics Governing Seat Back Behaviour in Whiplash Injuries, Proceedings Road Safety Research, Policing and Education Conference, Australian Transport Safety Bureau, Canberra, Australia, November, 1999.
99. Rechnitzer G., Grzebieta R.H., Brown G.M. and Schuster R., Effectiveness of Load Restraint System and Load Subjected to Rear Impacts-Crash Testing of Telstra VT Commodore Service Vehicle, Proceedings Road Safety Research, Policing and Education Conference, Australian Transport Safety Bureau, Canberra, Australia, November, 1999.
100. Grzebieta R.H., New Standard for Crash Barrier Systems, *Journal of the Australian College of Road Safety - RoadWise*, ISSN 1030-7168, Vol. 11, No. 4, 1999.
101. Zhao X.L. and Grzebieta R.H., Void Filled SHS Beams Subjected to Large Deformation Cyclic Bending, *ASCE Journal of Structural Engineering*, Vol.125, No.9, Sept., 1999.

102. Richardson S.A., Grzebieta R. H. and R. Zou, Development of a Side Facing Seat and Seat Belt System for the Australian Army Perentie 4 x 4, *Int. J. of Crash.*, Vol. 4 No. 3, pp. 239 – 259, 1999.
 103. Grzebieta R.H., Koay K., Zou R., Road-Side Crash Barriers – Can they be modelled?, Proc. 1999 Australian MADYMO users meeting, AVEA Engineering, Melbourne, Australia.
 104. Fildes B., Vulcan P., Grzebieta R.H., Sparke L., Seyer K., Gibson T., and McLean J. (1999), Improved Side Impact Protection, Proc. 1999 Australian MADYMO users meeting, AVEA Engineering, Melbourne, Australia.
 105. Zou R., Richardson S., Grzebieta R.H., (1999) Occupant protection in Side Facing Seats, Proc. 1999 Australian MADYMO users meeting, AVEA Engineering, Melbourne, Australia.
 106. Zhao, X.L., Grzebieta, R.H., Ewong, P. and Lee, C., (1999) Concrete Filled Cold-Formed C450 RHS Columns Subjected to Cyclic Axial Loading, ICASS'99.
 107. Sironic L., Murray N.W., Grzebieta R.H., (1999) Buckling of Wide Struts/Plates resting on Isotropic Foundations, *Thin-Walled Structures*, 35, pp. 153-166.
 108. Stolinski R, Grzebieta R.H., Fildes B., Judd R., Wawrzynczak J, Gray I., McGrath P and Case M., (1999) Response of Far-Side Occupants in Car-to-Car Impacts with Standard and Modified Restraint Systems using Hybrid III and US-SID, SAE paper 1999-01-1321, Occupant Protection, SAE/SP-99/1432, ISBN 0-7680-0364-4.
 109. Hammond L. and Grzebieta R.H., (1998) Structural Response of Submerged Air-backed Plates by Experimental and Numerical Analyses, 69th Shock and Vibration Symposium, St. Paul, Minnesota.
 110. Grzebieta R.H. and Koay K., (1998) Design of Roadside Crash Barriers Using the Societal Harm Reduction Method, Proc. Road Safety Research, Policing and Education Conf., Land Transport Safety Authority, Wellington, New Zealand.
 111. Fildes B., Vulcan P., Grzebieta R.H., Sparke L., Seyer K., Gibson T., and McLean J. (1998), Optimal Side Impact Protection, Proc. Road Safety Research, Policing and Education Conf., Land Transport Safety Authority, Wellington, New Zealand.
 112. Stolinski R., Grzebieta R.H. and Fildes B. (1998), Vehicle Far-Side Impact Crash Countermeasures, *Proc. Int. Crashworthiness Conf. IJCRASH' 98*, ISBN: 1855734605, Dearborne, Michigan, USA.
 113. Stolinski R., Grzebieta R.H. and Fildes B. (1998), Vehicle Far-Side Impact Crashes, *Proc. 16th Int. Technical Conf. on the Enhanced Safety of Vehicles*, Windsor, Canada.
-

114. Stolinski R., Grzebieta R.H. and Fildes B. (1998), Side Impact Protection – Occupants in the Far Side Seat, *Int. J. Crash.*, Vol.3 No.2, pp. 93-121.
115. Zhao, X.L., Grzebieta, R.H. and Sironic, E., Void-Filled SHS Sections under High Amplitude Cyclic Loading. *8th International Symposium on Tubular Structures, Singapore*, Ed. Choo Y.S., Van Der Vegta G.J., Balkema, Rotterdam, August, 1998.
116. White G.J. and Grzebieta R.H., (1997), Deep Collapse of Square Thin-Walled Cantilever-Beams Subjected to Combined Bending and Torsion, (Proc. 15th) *Mechanics of Structures and Materials*, ed. R.H. Grzebieta, R. Al-Mahaidi, and Wilson J., Balkema, Rotterdam.
117. Sironic L., Murray N.W. and Grzebieta R.H., (1997), Effect of Foam-Filler on the Elastic Post-Buckling Strength of a Thin Plate with In-Plane Compression, (Proc. 15th) *Mechanics of Structures and Materials*, ed. R.H. Grzebieta, R. Al-Mahaidi, and Wilson J., Balkema, Rotterdam.
118. Sonnenberg A.M.C. and Grzebieta R.H., (1997), Fibre Reinforced Polymer Composite Short Span Bridges: Are they viable?, (Proc. 15th) *Mechanics of Structures and Materials*, ed. R.H. Grzebieta, R. Al-Mahaidi, and Wilson J., Balkema, Rotterdam.
119. Stolinski R., Grzebieta R.H., and Fildes B., (1997), The Use of Biomechanical Injury Cost Models in Assessing Side-Impact Countermeasures, Proc. 2nd *International Conference on Accident Investigation, Reconstruction, Interpretation and the Law*, ed. F. Bullen and R. Troutbeck, Brisbane, Australia.
120. Zou R., Rechnitzer G., Grzebieta R.H., (1997), MADYMO Modelling of a Car Impacting an Energy Absorbing Rear Truck Underrun Barrier, Proc. 2nd *International Conference on Accident Investigation, Reconstruction, Interpretation and the Law*, ed. F. Bullen and R. Troutbeck, Brisbane, Australia.
121. Grzebieta R.H., Zou R., Richardson S., (1997), MADYMO Modelling of the TRANSafe Seat for Reducing Side Impact Injuries in the Parentie 4x4 Troop Carrier, Proc. 2nd *International Conference on Accident Investigation, Reconstruction, Interpretation and the Law*, ed. F. Bullen and R. Troutbeck, Brisbane, Australia.
122. Grzebieta R.H., Zou R. and Powell C., (1997), Development of an Air-Bag Compatible Bull Bar, Proc. 2nd *International Conference on Accident Investigation, Reconstruction, Interpretation and the Law*, ed. F. Bullen and R. Troutbeck, Brisbane, Australia.
123. Grzebieta R.H., Zhao X. L. and Purza F., (1997), Multiple low cycle fatigue of SHS tubes subjected to gross pure bending deformation, Proc. 5th *Int. Colloquium on Stability and Ductility of Steel Structures - SDSS'97*, ed. Usami T., Japanese Society of Steel Construction, Nagoya University, Japan.

124. Rechnitzer G., Zou R. and Grzebieta R.H., (1997), MADYMO computer modelling of energy absorbing rear underrun barriers for heavy vehicles – a pilot study, Monash University Accident Research Centre, Research report No. 112, March, pp. 44, ISBN 0 7326 0692 6.
125. Finch C., Grzebieta R.H., Zou R., Doulis R., (1997), MADYMO modelling of head impacts during baseball, Proc. 1997 Australian MADYMO users meeting, Taymar Research and Development, Melbourne, Australia.
126. Zou R., Rechnitzer G., Grzebieta R.H., (1997), Simulating an effective truck underrun barrier, Proc. 1997 Australian MADYMO users meeting, Taymar Research and Development, Melbourne, Australia.
127. Stolinski R., Grzebieta R.H. and Fildes F. (1997), Modelling Vehicle Far-Side Impact Crashes, Proc. 1997 Australian MADYMO users meeting, Taymar Research and Development, Melbourne, Australia.
128. Sironic, E., Murray, N.W. and Grzebieta R.H., (1997), Elastic Stability of foam-filled thin-walled rectangular sections under static loading, Proc. 5th Int. Colloquium on Stability and Ductility of Steel Structures - SDSS'97, ed. Usami T., Japanese Society of Steel Construction, Nagoya University, Japan.
129. Grzebieta R.H., (1996), Research into Failure Mechanisms of some thin-walled round tubes, Proc. Symposium on Plasticity and Impact Mechanics, ed. Gupta N.K., IMPLAST 96, New Age International Ltd., New Delhi, India.
130. Turner T.G., Burman N.M., Ritzel D.V. and Grzebieta R.H. (1996), *Deformation and Failures in Explosively Loaded Steel Structures*, Proc. US Dept. of Defence 27th Explosives Safety Seminar, Las Vegas, USA.
131. Sironic E. and Grzebieta, R.H. (1996). Should car roof pillars be epoxy-filled for increased roll-over strength? *Proc. 15th Int. Technical Conf. on the Enhanced Safety of Vehicles*, Melbourne.
132. Grzebieta, R.H. (1996). Failure of some thin-walled steel structures, *Proc. Monash Industry Geomechanics and Structures Symposium*, Dept. Civil Engineering, Monash University, Melbourne, November, 63-70.
133. Stolinski, R. and Grzebieta, R.H. (1996), Priorities to reduce vehicle side impact Trauma: which countermeasures matter most?, *Proc. Road Safety Research and Enforcement Conference*, Road Traffic Authority, Sydney.
134. Hammond, L. Grzebieta, R.H. and Saunders, D. (1996), Structural response of air-backed plates to underwater explosions, *Proc. Monash Industry Geomechanics and Structures Symposium*, Dept. Civil Engineering, Monash University, Melbourne, November, 105-106

135. Richardson, S. and Grzebieta, R.H. (1996), Roll-over protective structures for the safe carriage of troops in the rear of military vehicles, *Proc. Monash Industry Geomechanics and Structures Symposium*, Dept. Civil Engineering, Monash University, Melbourne, November, 115-116.
136. Sironic, L., Grzebieta, R.H., and Murray, N.W.(1996), A study of foam-filled thin-walled tube sections: Effects of filler on the section local buckling capacity, *Proc. Monash Industry Geomechanics and Structures Symposium*, Dept. Civil Engineering, Monash University, Melbourne, November, 119-120.
137. Stolinski, R. and Grzebieta, R.H. (1996), Priorities to reduce vehicle side impact Trauma: which countermeasures matter most?, *Proc. Monash Industry Geomechanics and Structures Symposium*, Dept. Civil Engineering, Monash University, Melbourne, November, 121-122.
138. Zou, R. and Grzebieta, R.H. (1996), MADYMO simulation of truck impact, *Proc. Monash Industry Geomechanics and Structures Symposium*, Dept. Civil Engineering, Monash University, Melbourne, November, 127-128.
139. Grzebieta, R. (1996), Thin-Walled Steel Structures Subjected to Gross Plastic Deformation, *Proceedings Impact, Earthquake and Blast Loading*, Japan Australia One Day Joint Seminar, eds. Grzebieta R.H. and Grundy P., Dept. Civil Engineering, Monash University, Melbourne, December, 7-22.
140. Zhao, X.L., Lip, E.O.T. and Grzebieta, R.H. (1996), Plastic Mechanism Analysis using Newly Derived Yield Line Theory, *Proc. First Australasian Congress on Applied Mechanics*, eds. Grzebieta R.H., Wong, A.K. Marco, J. and Lam, Y.C., Melbourne.
141. Grzebieta, R.H. (1995), Laboratory Proof Testing, *Proc. Vehicle Accidents - their Cause, Reconstruction and Law*, eds. Grzebieta, R.H., de Forest R., Rechnitzer G., Dept. Civil Engineering, ISBN 0 7326 0869, Melbourne, Australia.
142. Grzebieta, R.H. (1995), Design of Roll-over Protective Structure for a Four Wheel Drive Terrain Vehicle, *Proc. Inaugural Conf. on Accident Investigation, Reconstruction Interpretation and Law*, eds. Bullen, F., Gardening, D., Troutbeck, R., Gold Coast, Australia, October.
143. Grzebieta, R.H. (1995), Government Responsibility - carrot or Stick? *Proc. The Future of the Motor Car, Where to From Here*, The Banksia Foundation Seminar Series 1995 and Stanley Foster Foundation, Melbourne.
144. Grzebieta, R.H. (1995), On the Half Diamond Plastic Collapse Mechanism, *Proc. 14th Australasian Conference on the Mechanics of Structures and Materials*, Hobart, pp. 704-709.
145. Grzebieta, R.H. and White, G.J. (1994), Void filled square cantilever steel tubes subjected to gross plastic deformation, *Proc. Sixth International Symp. on Tubular Structures*, Melbourne, 255-262.

146. Grzebieta, R.H., Kilner, A.A. and Murray, N.W. (1995), Gross bending deformation of hollow and void filled square tubes, *Structural Stability and Design*, [Proc. eds. Kitipornchai, Hancock and Bradford], Balkema, Sydney, 397-403.
147. Grzebieta, R.H. (1993), Impact Tests on Some Mild Steel Structures, *Proc. Dynamic Loading in Manufacturing and Service*, The Inst. of Engineers, Australia, Melbourne, 177-188.
148. White, G.J., Grzebieta, R.H. and Murray, N.W. (1993), Maximum Strength of Square Thin-Walled Sections Subjected to Combined Loading of Torsion and Bending, *Int. J. Impact Engng.*, Vol. 13, No. 2, 203-214.
149. Grzebieta, R.H. and Murray, N.W. (1991), Impact Crush Analysis of an Axisymmetrically Deforming Round Tube, *Proc. Int. Conf. on Mechanics of Solids and Structures*, [eds. Levin, D.T. and Travis, F.W.J World Scientific, Singapore.
150. Grzebieta, R.H. (1990), An alternative method for determining the behaviour of round stocky tubes subjected to an axial crush load, *Thin-Walled Structures* Vol.9, pp. 61-89, (Also printed in *Thin-Walled Structures: Developments in Theory and Practice*, ed. I.B. Donald, Elsevier Applied Science, pp.61-89, 1990)
151. Dayawansa, P.H. and Grzebieta, R.H. (1990), Roll-over crashworthiness of a three-dimensional vehicle frame, *Proceedings of the Second National Structural Engineering Conference*, Institution of Engineers Australia, Pub. No. 90/10, Adelaide.
152. Grzebieta R.H. and Murray N.W. (1989), Rigid-plastic collapse behaviour of axisymmetrically deforming round mild-steel tubes, *Proc. Winter Annual Meeting ASME*, San Francisco, ADM-Vol. 105, AD-Vol. 17, pp 1-11, Dec..
153. Jones N., Murray N.W., Grzebieta R.H. and Dayawansa P.H. (1989), Report on bumper bar test", *Research report No. 6/1989*, Dept. of Civ. Engg., Monash University, Australia.
154. Grzebieta R.H. (1988), A review of methods for determining the rigid-plastic collapse behaviour of axisymmetrically deforming round mild-steel tubes", *Research Report No. 4/1988*, Dept. of Civ. Engg., Monash University, Australia
155. Grzebieta R.H. and Dayawansa, P.H. (1987), Roll-over analysis of a truck cabin frame, *Proc. Struct. Crashworthiness and Property Damage Accidents*, ed. N. W. Murray and R. H. Grzebieta, Monash University, pp.111-133, August, 1987.
156. Murray N.W. and Grzebieta R.H. (1987), Some structural aspects in the design of crash barriers", *Proc. First Nat. Struct. Engg. Conf. Inst. Eng. Aust.*, pp.397-400, August.

157. Grzebieta R.H. and Murray N.W. (1986), Energy absorption of an initially imperfect strut subjected to an impact load", *Int. J. Impact Eng.*, Vol. 4, No. 3, pp. 147-159.
158. Grzebieta R.H. and Murray N.W. (1985), The static behaviour of struts with initial kinks at their centre point, *Int. J. Impact Eng.*, Vol. 3, No. 3, pp.155-165.

Thesies

159. Grzebieta R.H. "*On the equilibrium approach for predicting the crush response of thin-walled mild steel structures*", Ph.D. Thesis, 1990, Monash University, Clayton, Australia.
160. Grzebieta R.H. "*Thermal Stresses in thin-walled buttress reinforced concrete tanks subjected to atmospheric conditions*", Masters Thesis, 1979, The Tadeus Kosciuszko Technological University, Krakow, Poland.

Other Academic & Professional Outputs

161. Curbing China's Road Safety Horror, Raphael Grzebieta, Journal of the Australasian College of Road Safety, Vol. 17 No. 2, May 2006.
162. "CRASH information for litigation – what's NEEDED" - Dr George Rechnitzer, Shane Richardson, Dr Raphael Grzebieta, Precedent Issue 73 - March/April 2006.
163. Featured in Video Recording: AUSRAP, Australian Road Assessment Program, Producers Images Online, Australian Automobile Association, 2006.
164. Report on the 2004 International Conference on Enhanced Safety, Raphael Grzebieta, Journal of the Australasian College of Road Safety, Vol. 16 No.1, July 2005.
165. Report on Pedestrian Impact – Coronial Inquest into Death of Constantine Politis, DVExperts International, November, 2005
166. Featured in ABC Catalyst "Crash Barrier", 11 March 2004. See <http://www.abc.net.au/catalyst/stories/s1063690.htm>
167. "How To Reduce the Road Toll" - Dr George Rechnitzer, Shane Richardson, Dr Raphael Grzebieta, Safety In Australia, Vol. 26 No. 3, December 2004.
168. Coronial Inquest Report - Go-Kart Crash (Nicole FRANKS), Flagstaff Hill, Wollongong, Coronial Inquest, 2002.
169. Rechnitzer G.R., Grzebieta R.H. & Richardson S., All Terrain Vehicle Injuries And Deaths, MUARC Report for Coronial Inquest, March 2003.

Over 50 Expert Crash & Incident Reports for Insurance Companies and Legal Firms.
