



Prevention through Design—a new way of doing business: *report on the National Initiative*

Omni Shoreham, Washington, DC

Day 1 – Monday August 22, 2011

1:00 – 5:20 pm

Opening Session

Reception/Poster Session

1:00 – 1:10 pm	Welcome	Margaret Kitt, M.D., MPH, Deputy Director for Program, NIOSH
1:10—1:45 pm	PtD: State of the National Initiative	Paul A. Schulte, PhD, Director, Education and Information Division, NIOSH
1:45—2:30 pm	Keynote Address	Kelvin Genn, General Manager Safety and Wellness, Sinclair Knight Merz, Australia
2:30—5:20 pm	Plenary Session	
	2:30 – 3:00	Michael Acott, President National Asphalt Pavement Association
	3:00 – 3:30	William (Bill) Horsford, PhD, Project General Manager, Environmental and Safety Engineering, Toyota
	3:30 – 3:45	Break
	3:45 – 4:15	John Borowski, Director, Health Safety Security & Environment, WorleyParsons
	4:15 – 4:45	Wayne S. Maynard, CSP, CPE, ALCM, Manager, Technical Services & Product Development, Liberty Mutual
	4:45 – 5:15	Scott P. Schneider, CIH, Division Director, Laborers' Health and Safety Fund of North America
	5:15 – 5:20	Overview of Day 2 Donna S. Heidel, PtD Coordinator, NIOSH
5:30—7:00 pm		

Day 2—Tuesday, August 23, 2011

Session A: Research Issues in PtD

8 am – 3:45 pm

Research Issues	8:00 – 8:30	Effects of construction design and management regulations in the UK; PtD survey of UK and the UK experience <i>Alistair Gibb, PhD, Loughborough University</i>
	8:30 – 9:00	Findings from the overall PtD in the UK study and their application to the US <i>John Gambatese, PhD, Oregon State University</i>
	9:00 – 9:30	Structural collapses during construction: lessons learned 1990 – 2008 <i>Mohammad Ayub, P.E., S.E., Directorate of Construction, USDOL-OSHA</i>
	9:30 – 10:00	Design risk analysis and quantification <i>Matthew Hallowell, PhD, University of Colorado</i>
	10:00 – 10:15	Break
	10:15 – 10:45	Benchmarking management practices related to PtD in the US <i>Steve Newell, Consultant, Mercer</i>
	10:45 – 11:15	Incorporating PtD methods in the design and re-design process <i>Frank Renshaw, PhD, CIH</i>
	11:15 – 12:00	Variability in business case methods associated with adopting PtD design solutions <i>Elyce Biddle, PhD, NIOSH</i>
Lunch and Student Contest	12 noon – 1:30	Student PtD project competition presentations and awards
Research Issues (continued)	1:30 – 2:00	Improving the work life of workers in wine grape harvesting industry through PtD <i>Amy Wolfe, Executive Director at AgSafe</i>
	2:00 – 2:30	Including occupational H&S considerations in alternatives assessment to identify chemical substitutes <i>Joel Tickner, PhD, University of Massachusetts Lowell</i> <i>Cal Baier-Anderson, PhD, U.S. Environmental Protection Agency</i>
	2:30 – 3:00	Implementing PtD to promote health and safety in hospitals <i>Margaret Quinn, ScD, CIH, University of Massachusetts Lowell</i>
	3:00 – 3:15	Break

Day 2—Tuesday, August 23, 2011

Session B: Education Issues in PtD

1:30 – 5 pm

<i>Education Issues</i>	1:30—2:00	Inclusion of PtD into engineering textbooks <i>Atila Ertas, PhD, Texas Tech University</i>
	2:00 – 2:30	Inclusion of PtD into engineering education <i>Deborah Young-Corbett, PhD CIH CSP CHMM, Virginia Tech</i>
	2:30 – 3:00	Engineer 2020: Prevention through Design <i>James McGlothlin, PhD, Purdue University</i> <i>Peter H. Meckl, PhD, Purdue University</i>
	3:00 – 3:15	Break
	3:15 – 3:45	Including PtD into the education of safety engineers <i>Martha Bidez, PhD, University of Alabama at Birmingham</i>
	3:45 – 4:15	Including PtD into the accreditation of civil/construction engineering curricula <i>Joseph Fradella, MS, Oregon State University</i>
	4:15 – 4:45	Educating health and safety professionals in PtD <i>Georgi Popov, PhD, University of Central Missouri</i>
	4:45 – 5:00	Including PtD into undergraduate engineering courses <i>Donna S. Heidel, CIH, NIOSH</i>

Day 2—Tuesday, August 23, 2011

Session C: Practice Issues in PtD

8 am – 5 pm

Practice Issues	8:00 – 8:30	Owner involvement in PtD <i>Michael Toole, PhD, Bucknell University</i>
	8:30 – 9:00	PtD as a part of capital project design and execution from the project manager's perspective <i>John Weaver, Birck Nanotechnology Center, Purdue University</i>
	9:00 – 9:30	PtD from the project and contractor's perspective <i>Jimmie Hinze, PhD, University of Florida</i>
	9:30 – 10:00	Life cycle approaches to project design <i>Peter Furst, MBA, Registered Architect</i>
	10:00 – 10:15	Break
	10:15 – 10:45	Costs/benefits of ergonomic interventions for small business <i>Dan MacLeod, CPE, Ergonomics Consultant</i>
	10:45 – 11:30	Buy Quiet/Quiet by Design <i>Beth Cooper, NASA</i>
	11:30 – 12 noon	Ambulance re-design to reduce EMS injuries <i>Paul Moore, Division of Safety Research, NIOSH</i>
Lunch and Student Contest	12 noon – 1:30	Student PtD project competition presentations and awards
Practice Issues	1:30 – 2:00	PtD current and future activities and challenges <i>Danezza Quintero, USDOL-OSHA</i> <i>Gopal Menon, P.E., USDOL-OSHA</i>
	2:00 – 5:00 including break at 3:00 – 3:15	Making buildings safe to construct, operate and maintain <i>John Gambatese, PhD, Oregon State University; Moderator</i> <ul style="list-style-type: none">• Spray polyurethane foam (SPF)-EPA considerations <i>Anjali Lamba, MPH, CIH, USEPA</i>• Vegetative roofs <i>Mike Behm, PhD, East Carolina University</i>• Designing out the use of ladders <i>Thomas J. Lyons, Innovative Technical Solutions, Inc.</i>• Sustainable construction safety and health rating system <i>Sathy Rajendran, PhD</i>• Incorporating OSH of preventive maintenance workers into green building design and operation <i>Mohamed Omar, ScD, Harvard University</i>• A review of safety on four LEED projects <i>Nicholas Tymvios, Oregon State University</i>• PtD construction case studies <i>Nicholas Tymvios, Oregon State University</i>

Sponsors: American Industrial Hygiene Association, American Society of Safety Engineers, Liberty Mutual, OSHA, Mercer (ORC WorldWide), Regenstrief Center for Healthcare Engineering

Day 3—Wednesday, August 24, 2011

8 am – 12 noon

Policy Issues	8:00 – 8:30	ASSE PtD technical report and standard <i>Fred Manuele, President, Hazards, Limited</i>
	8:30 – 8:45	ASSE PtD-related activities <i>Dave Heidorn, JD, American Society of Safety Engineers</i>
	8:45 – 9:00	AIHA PtD-related activities: Z-10 <i>Kyle B. Dotson, CIH, CSP, BCEE, Dotson Group, LLC Representing the AIHA ANSI Z-10 committee</i>
	9:00 – 9:20	AIHA PtD-related activities: business value and control banding <i>Mary Ann Latko, AIHA</i>
	9:20 – 9:50	Progress in impacting policy in workplace electrical safety <i>H. Landis (Lanny) Floyd II, PE, CSP, CMRP, Fellow IEEE, DuPont</i>
	9:50 – 10:00	Break
What's next? <i>Challenges and Opportunities for the Future</i>	10:00 – 12:00	Panel Discussion <ul style="list-style-type: none">• Workplace violence prevention <i>Daniel Hartley, PhD, NIOSH</i>• Changing organization of work and the effect on safety and health of working people <i>Nancy Lessin, United Steelworkers - Tony Mazzocchi Center for Health, Safety and Environmental Education</i>• Worker involvement <i>Stephen Gauthier, GE, IUE/CWA, Vice Chair, Region I VPP</i>• New technology integration: nanotechnology <i>Charles Geraci, PhD, NIOSH</i>• Small business <i>Georgi Popov, PhD, University of Central Missouri</i>• AIHA perspective on challenges and opportunities <i>Daniel H. Anna, PhD, CIH, CSP AIHA Secretary</i>• Leveraging technology to design for safety in construction <i>Jochen Teizer, PhD, Georgia Institute of Technology</i>
		Closing Remarks
		Donna S. Heidel, NIOSH, PtD Coordinator