



Meeting Minutes
Area 11a Loss Prevention Programming Committee Meetings
April 6, 2008 and April 9, 2008.
New Orleans, LA

April 6, 2008, Sunday night pre-symposium meeting.

In attendance: Bob Johnson, Walt Frank, Erdem Ural, Chris Hanauska, Bob Benedetti, Dave Clark, Dan Crowl, Brain Dunbobbin, Henry Febo, John Going, Cheryl Grounds, Hank Gurry, Dennis Hendershot, Pete Lodal, Sam Mannan, John Murphy, Ron Willey, Brian Kelly, Jean-Paul Lacoursiere, Stan Grossel, Joe Louvar, Jack Chosnek, Mike Moosemiller, Nir Keren, Vincent Van Brunt, John Champion, Al Ness.

1. The meeting was called to order by the Committee Chair, Erdem Ural.
2. A quorum was present.
3. The meeting minutes for the Fall 2007 meeting were approved as published.
4. Report on 2008 Symposium, Dave Clark, Symposium Chair:
 - a. The conference proceedings are in good shape and are available.
 - b. Joint sessions with CCPS and PPSS are all set. Swapping of papers between symposiums went well and added to the quality of the Congress.
 - c. In general, receipt of papers and presentations went well. The poster session also has a number of good papers.
 - d. Bill Doyle award will be presented to Lisa Long at the Monday morning joint session. Congratulations!
 - e. Walton Miller Award will be presented to John Murphy at the S&H Division dinner. Congratulations!
 - f. Attendance and evaluation forms are printed and ready to go. Three books (one for each symposium) have been donated by CCPS and will be the prizes for a drawing from the evaluation forms to take place during the Case Histories session.
 - g. PPSS will also be doing a best paper award, similar to the LPS award.
 - h. Cheryl Grounds, the chair for the CCPS, reported that symposium is in good shape.
 - i. Jack Chosnek, the chair for the PPSS, reported that symposium is in good shape as well.
 - j. All three symposium chairs agreed the "horse trading" of papers and general cooperation went exceptionally well.
 - k. There was discussion of dropping the paper proceedings and only offering an electronic version. Discussion focused on the apparent lack of enthusiasm for the paper proceedings as people continue to migrate to

electronic versions. Another option is to publish the front matter from the proceedings (maybe with the abstracts and a notes page) for distribution (no cost) and have the CD include the full papers. The 11a chair will look into the sales for 2008 of the paper proceedings and the economics of continuing with them.

5. Report on 2009 Symposium, Jean-Paul Lacoursiere:
 - a. The 43rd Loss Prevention Symposium will take place with the 5th Global Congress on Process Safety to be held April 26-30, 2009 in Tampa, Florida.
 - b. The call for papers is out, and paper copies will be distributed at the sessions, see attached LPS call and GCPS call.
 - c. The advertised due date for abstracts is September 30, 2008. Jean-Paul will establish other dates (drop dead abstracts, draft paper, final paper etc.) as the time approaches. This should be in cooperation with the three symposium chairs and the CGPS chair to coordinate schedules if possible.
 - d. Discussion on the use of Confex (the usual). Pete Lodal volunteered to put together a memo on this year's experience with the system. It was also reported that the system will be adding keywords for next year and that some kind of training may/will be available for users of confex.
6. 11a Committee Membership status was reported by Bob Benedetti:
 - a. Both John Murphy and Dennis Hendershot have been elected to Emeritus status by the committee. The committee would like to thank them for their many years of superb service and we look forward to their continued involvement.
 - b. The committee has two openings for new members; -we could benefit from some increased diversity of membership.
7. Old Business
 - a. Jean-Paul Lacoursiere provided information on the World Congress of Chemical Engineering to be held in Montreal August 23-29, 2009. The CSE's Process Safety Management Division will hold a symposium on "Risk assessment for major hazard control: How realistic are those frequencies?" See attached.
 - b. Changes to the 11a Organization and Operating procedures were presented by Erdem Ural and discussed. Official ballot will be forthcoming.
 - c. A discussion on the benefits of a Global Congress Chair took place. Pete Lodal, the 2008 Chair, discussed this year's success and agreed to provide some information/analysis (along with the symposium chairs) on how the process went and advice for improvements. Much support was expressed. A motion was made, seconded and voted positively for the 11a committee to support the continued position of a Global Congress Chair.
8. New Business
 - a. Henry Febo distributed a CD with the power points from last year's LPS, at the least the ones he was able to gather. This CD is meant for the use of the 11a committee and should not be forwarded/published.
9. Next Meeting
 - a. Wednesday, April 9, during lunch

10. Meeting Adjourned.

April 9th, 2008, Wednesday lunch symposium closing meeting.

In attendance: Not taken

1. Erdem Ural passed the gavel for the 11a Chair to Chris Hanauska. Dave Clark will become the 11a Vice Chair.
2. The preliminary evaluation of the 2008 LPS and CGPS were that things went fine and attendance was generally good. Some LPS sessions were lightly attended (65-75) relative to some other sessions, but this is due to the focused technical topics presented in the sessions.
3. An ad-hoc committee was formed to put together checklists and information on the process of running the symposium and the sessions. Input is welcome from all, and can be addressed to Dave Clark or Chris Hanauska. Hank Gurry volunteered to provide information from the perspective of a first-time session chair.
4. The initial due date for abstracts for 2009 LPS is September 30, 2008. Other dates pertaining to the 2009 LPS will be discovered and published going forward, including the date for the 11a fall meeting (to be coordinated with the progress of the CCPS and PPSS, likely in November).
5. Meeting Adjourned.

Minutes humbly submitted by Chris Hanauska. Please reply with any corrections or additions to chanauska@haifire.com. Thanks.

43rd Annual Loss Prevention Symposium (LPS)

5th Global Congress on Process Safety

AICHE 2009 Spring National Meeting

Tampa Convention Center

Tampa, FL

Date: April 26 to 30, 2009

The Loss Prevention Symposium (LPS) is one of three parallel symposia that comprise The Global Congress on Process Safety. Organized by Group 11A of the AIChE Safety and Health (S&H) Division, the LPS has been held annually since 1967. The Symposium promotes process safety by providing a forum for practitioners from the chemical industry, allied industries, academia, and government to share technological advances in process safety, explosion prevention, and fire protection as well as to share the lessons learned from incident investigations.

The Symposium consists of six sessions, each with six 30-minute presentations. Papers are selected by session chairs based on submitted abstracts. Accepted manuscripts must address pertinent process safety issues or useful loss prevention technologies. The papers will be published in the LPS proceedings. If you wish to present a paper please send an abstract to the appropriate session chair (copying the symposium chair) via email for consideration by September 30, 2008.

1 – Fires, Explosions and Reactive Chemicals

The analysis, prevention, protection and mitigation of fire, explosion, and reactivity hazards continue to be important to the loss prevention community. This session invites papers that identify, characterize, or offer design and operational guidance on fire, explosion and reactivity hazards. Key Words: Fire; Explosion; Reactive Chemicals.

Chair	Stanley S. Grossel Process Safety & Design 4 Marble Court, Unit 9 Clifton NJ 07013-2212 973-779-3668 psadi28@aol.com	Vice-Chair	Erdem A. Ural Loss Prevention Science & Technologies, Inc. 810 Washington Street, Suite 4 Stoughton, MA 02072 781-818-41141 erdem.ural@lpsti.com
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2 - Hazard Evaluations and Layer of Protection Analyses

Process hazard analyses (PHA's) and their extension into LOPAs and Safety Integrity Level (SIL) determinations continue to be central to loss prevention efforts. This session seeks original presentations related to identifying hazards, developing scenarios, determining the adequacy of safeguards, and specifying the integrity of protection layers needed to meet risk goals in the context of team-based reviews. Key Words: Hazard Evaluation; Layer of protection Analysis; PHA.

Chair	Robert W. Johnson Unwin Company 1920 Northwest Boulevard, Suite 201 Columbus, OH 43212 614-486-2245 rjohnson@unwin-co.com	Vice-Chair	Mike Moosemiller Baker Engineering and Risk Consultants 1460 Lantern Circle Naperville, IL 60540 630-544-6873 mmoosemiller@bakerrisk.com
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3 – Food and Consumer Products Process Hazards

The Food and Consumer Products area has significant hazards and risks from dust and flammable liquid explosions as well as from toxic releases. Moreover, the Montreal Protocol for the removal of Ozone Depleting Substances may result in the use of ammonia refrigerant with its associated risks. This session invites papers on the identification, prevention, control, and management of hazards and risks in the food and consumer products industries. Relevant knowledge extracted from analysis of incident databases is encouraged as well. Key Words: Food; Consumer Products; Dust explosion; Flammable liquid; Ammonia.

Chair	John Going Fike Corporation 704 S 10 th St Blue Springs, MO 64013 816-655-4769 john.going@Fike.com	Vice-Chair	Nir Keren Dept. of Agricultural & Biosystems Eng'g Iowa State University 102 Industrial Education Building II Ames, IA 50010 515-294-2580 nir@iastate.edu
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4 – Audits, Inspection and Regulation

In the past few years, we have seen renewed emphasis on PSM through OSHA's National Emphasis Programs, and Homeland Security new Chemical Security's regulations. This session invites papers that discuss regulatory programs in the U.S. and internationally, and companies strategies for complying with them. Key Words: Audit; Inspection; Regulation; OSHA; Homeland Security.

Chair	Lisa Long U. S. Department of Labor - OSHA Office of General Industry Enforcement 200 Constitution Avenue, NW Washington DC 20210 202-693-2409 long.lisa@dol.gov	Vice-Chair	John F. Murphy Process Safety Services 2304 Kenya Lane Punta Gorda FL 33983 941-624-0171 hamjfm@embarqmail.com
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5 – Consequence Modeling

Consequence modeling has evolved as a result of accident investigations. This session will review the state of the art in fire, explosion and toxic release modeling. Key Words: Consequence Modeling.

Chair	David G. Clark E.I. du Pont de Nemours & Co., Inc. Brandywine Building 7248 1007 Market St Wilmington, DE 19898 302-774-8044 David.g.clark@usa.dupont.com	Vice-Chair	Brian R. Dunbobbin Air Products & Chemicals, Inc. 7201 Hamilton Boulevard Allentown, PA 18195-1501 610-481-6736 dunbobbr@apci.com
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6 - Case Histories and Lessons Learned

Reviews of process safety incidents and near misses provide valuable learning opportunities. Papers dealing with incidents, near misses, and the lessons learned are requested. Key Words: Case Histories

Chair	Henry L. Febo FM Global P.O. Box 9102 1151 Boston-Providence Tpke Norwood, MA 02062 781-255-4771 henry.febo@fmglobal.com	Vice-Chair	Cheryl A. Grounds BP Exploration & Production, Inc. 501 Westlake Park Boulevard Houston, TX 77079-2696 281-366-4740 cheryl.grounds@bp.com
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2009 Loss Prevention Symposium Chair and Vice Chair

Chair	Jean-Paul Lacoursiere University of Sherbrooke Department of Chemical Engineering 35 Rue Lemoyne Repentigny, QC, Canada J6A 3L4 450-581-2315 jpla@sympatico.ca	Vice-Chair	Ronald J. Willey Northeastern University Department of Chemical Engineering 342 Snell Engineering Center 360 Huntington Avenue Boston, MA 02115-5000 617-373-3962 r.willey@neu.edu
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Instructions to LPS Authors

The *Loss Prevention Symposium* covers process safety for engineering professionals. It addresses such topics as incident investigations, management of hazardous chemicals, prevention of hazardous leaks, risk assessment, evaluation of process hazards, industrial hygiene, fire and explosion analysis, preventive maintenance, vapor cloud dispersion, Process Safety Management, regulatory compliance, training, education, and plant/process security.

Papers from the annual *Loss Prevention Symposium* are considered for publication in *Process Safety Progress*. The editors of *PSP* select the best papers for publication - particularly those that are well written, contain new and unique technical content, and address process safety issues or technologies that are immediately useful to the chemical industry.

Papers will be read and evaluated by the respective session chair as well as the symposium chair. The primary author will receive comments to improve the quality of the paper. If specific corrections or changes are requested as a condition of acceptance, the author must incorporate these and resubmit the paper directly to the session chair. Articles are typically no longer than 16 manuscript pages, including tables and figures.

Format: Papers in LPS Proceedings follow the standard technical paper format, using the following sections: abstract, key words, introduction, background, results and discussion, and conclusions. However, authors are free to choose a different format or style if it better illustrates the material being presented. A clear, direct writing style is recommended. Use headings and subheadings to increase the readability. All tables and figures should be numbered and include a short, descriptive caption. A table of nomenclature should be provided for all mathematical terms. All acronyms and terms not commonly known outside of your area of technical specialization must be identified.

Title Page: This should contain the complete title of the manuscript and the names and affiliations of all authors. Include the name, address and telephone, telefax numbers, and e-mail address of the author responsible for correspondence.

Abstract: Each paper should include an abstract of 100-200 words. The abstract should offer a brief account of the contents, conclusions, and the relevance of its findings. The abstract should not be identical to the introductory paragraphs of the paper.

Key Words: The abstract should be followed by key words.

Literature Citations: Any literature directly referenced within the text or in any tables or figures should be notated using brackets with a reference number. Citations should be listed in the order in which they appear in the article. References should be styled in accordance with the reference style shown below:

Journal Article:

[1] B. Grunbaum and G. C. Shephard, Edge-transitive planar graphs, *J. Graph Theory* 11 (1987), 141–156.

Book:

[2] J. L. Gross and T. W. Tucker, *Topological Graph Theory*, Wiley, New York, 1987.

Book Chapter:

[3] R. C. Read and W. T. Tutte, "Chromatic polynomials," *Selected Topics in Graph Theory III* L. W. Beineke and R. J. Wilson, (Editors), Academic Press, New York (1988), pp. 15–42.

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5th Global Congress on Process Safety

AIChE 2009 Spring National Meeting
Tampa Convention Center
Tampa, FL
April 26 - 30, 2009

Process Safety: The Next Generation

Papers are being accepted for sessions presented by:

11th Process Plant Safety Symposium (PPSS)
24th Center for Chemical Process Safety (CCPS)
43rd Annual Loss Prevention Symposium (LPS)

The 11th PPSS Sessions include:

- Applications of Risk Analysis Techniques
- SIS - Problems and Innovative New Solutions
- State of the Art in Mechanical Integrity
- Operational Discipline and Safety Culture
- Management's Role in Process Safety
- Contractors and Process Safety

The 11th PPSS Chair and contact is:

John Champion 281-228-8265 JChampion@rohmmaas.com

The 24th CCPS Sessions include:

- Risk Tolerance
- Process Safety Metrics and Culture
- Managing Organizational Change
- Transportation Risk
- New Frontiers in Auditing
- Tools to Identify Hazards
- Fire, Explosion & Quantitative Analysis
- Implementing PSM Globally

The 24th CCPS Chair and contact is:

Eric Freiburger 412-490-6309 FreibuE@NOVAChem.com

**An AIChE Industry
Technology Alliance**

The 43rd LPS sessions include:

- Case History (joint with PPSS and CCPS)
- Hazard Evaluation Procedures – LOPA
- Process Safety Inspection/Audit/DHS Appendix A
- Consequence Analysis
- Process Hazard of Food Industry/Consumer Products
- Fire, Explosion and Reactive Hazards

The 43rd LPS Chair and contact is:

Jean Paul Lacoursiere 450-581-2315 jpla@sympatico.ca

Risk assessment for major hazard control: How realistic are those frequencies?

The Canadian Society for Chemical Engineering (CSChE) is hosting the Eighth World Congress of Chemical Engineering in Montreal, QC from **August 23-29, 2009**. As part of this congress, the CSChE's Process Safety Management Division will be holding the thirteenth Process Safety and Loss Management Symposium.

The planned focus of this symposium is on the frequency component used in risk assessment of major industrial accidents.

Although much has changed in recent decades in how the consequences are treated, estimation of frequencies still appears to be largely based on values from several decades ago, and may not reflect emerging factors such as safety culture, normalization of deviance, etc. The intent of this international symposium is therefore to examine the relevance of the increased understanding of frequency factors, and how this knowledge can be integrated into traditional approaches to risk assessment.

The suggested outline for the symposium is:

- A brief review of how the frequency values currently in use were originally derived;
- What has been learned since those values were established;
- Whether the values continue to represent realistic estimates of frequency or whether they should be revised to incorporate more recent knowledge and, if so:
 - To get some sense of how much the values should be changed;
 - To understand the implications of those changes;
 - To agree on a general process for establishing consensus on any revised values;
 - To agree on how to manage the introduction of any new values to the risk assessment community.

However, we intend to organize conference calls over the next few months to agree on how best to structure the agenda to get the most out of this important event.

We are therefore inviting you or your organization, as one with a strong interest in this field, to participate in this symposium¹. Please let us know if you are able to join us in this worthwhile endeavour, and who your representative will be for future contact.

Please contact either of the undersigned if you would like more information.

Yours truly,

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¹ As the symposium will be part of the World Congress, there will be a registration fee for all participants. However, this fee is expected to be moderate. More information will be available on the conference website www.chemengcongress2009.com.