



AMERICAN INSTITUTE OF
CHEMICAL ENGINEERS

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PROCESS SAFETY
PROGRESS

How to maximize **Safety** in every **Process**
in your **Plant**.

We have a **FREE** gift for you!
(See inside for details)



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CHEMICAL ENGINEERS

Dear Colleague:

According to a 1997 EPA report, between 1987 and 1996 there were more than 600,000 accidental releases of toxic chemicals in the U.S. that together killed 2,565 people and caused 22,949 injuries. *

Many of these were relatively minor incidents. But even one small incident is one too many. And when you think about it, with today's increasingly stringent regulatory requirements, there's really no such thing in the chemical industry as a "small accident" any more.

A leak...spill...fire...explosion...valve malfunction...monitor failure...all can have a major impact on employee health, plant productivity, customer service, and operating costs. Not to mention the damage to your company's safety record and public image.

Now the **American Institute of Chemical Engineers** has a **FREE BOOK** for you that can help ensure OSHA safety compliance while saving money...and even lives...in your operations:
Plant Safety.

This oversize, 272-page hardcover volume gives you 43 practical, cost-effective, plant-proven strategies to enhance safety management, hazard assessment, and process design and operation in your plant.

Normally AIChE sells this book for \$85. But if you respond by January 10, 2000, I will send you a copy absolutely **FREE** ... and with no obligation ... just for agreeing to subscribe to ...

**...Process Safety Progress -- The only AIChE magazine
dedicated to helping you prevent accidents in your plant.**

Since 1982, thousands of engineers, plant managers, and other process professionals have relied on **Process Safety Progress** for practical, easy-to-implement solutions that maximize process safety - while controlling operating and capital costs - and ensure compliance with continually changing OSHA and EPA regulations.

Each quarterly issue helps you understand and apply the latest significant breakthroughs, compliance strategies, and approaches to analyzing and mitigating risk in chemical, petroleum, and related process plants, including:

Safety evaluation ... risk assessment ... process hazards evaluation ... ammonia plant safety ... fire and explosion analysis ... hazardous chemical management ... vapor cloud explosion analysis ... OSHA and EPA regulatory compliance ... dust control ... cylinder gas storage and handling ... hazardous chemicals management ... leak detection and prevention ... and more.

A risk-free offer

Recent U.S. and international legislation is forcing our industry to comply with a tangled mass of safety and health regulations that seem to grow more complex and stringent

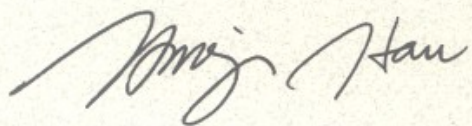
almost on a daily basis. At the same time, new developments in process safety technology are being developed at an incredible rate. How do you comply ... and keep up with which technology is best for your operation?

To start, why not take a look at the current issue of *Process Safety Progress*? Best of all, you can examine *Process Safety Progress* risk-free. That's because, if you are not 100% delighted with *Process Safety Progress*, you may cancel within 90 days for a full and prompt refund on all unmailed issues - no questions asked.

And regardless of whether you decide to become a subscriber, the 272-page *Plant Safety* book (an \$85 value) is yours to keep with no cost or further commitment of any kind. That's our way of saying "thanks" for giving *Process Safety Progress* a try!

But I urge you to hurry. We've allocated only a limited number of copies of the *Plant Safety* book to give away as part of this special offer. To be certain of getting your **FREE BOOK**, please reply today.

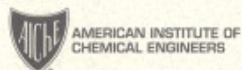
Sincerely,



Haeja Han, Associate Publisher, AIChE

P.S. Because lives depend on the quality and performance of your process safety programs, it's up to you to be as informed and effective as possible in this fast-changing field. For immediate activation of your subscription to *Process Safety Progress*, have your credit card ready and call now toll-free 800-242-4363.

* The statistics quoted in the first paragraph are taken from the book *Scientific Blunders* by Robert Youngson (Carroll & Graf), page 270; the article "*Union Carbide: Ten Years after Bhopal*" posted on www.prcentral.com/rmjf95bhop.htm; and "*When Publishing Could Mean Perishing*," *Scientific American*, September 1999, page 40.



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- Hazardous chemicals management
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- EPA and OSHA regulatory compliance

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When you agree to inspect the next issue of *Process Safety Progress*, we will send you – absolutely FREE – AIChE's *Plant Safety*. This oversized 272-page handbook contains reprints of the most timely and relevant articles from *Process Safety Progress* and other AIChE publications. The book is yours to keep FREE, regardless of whether you decide to remain a *Process Safety Progress* subscriber.

In this information-packed volume you'll learn how to:

- Mitigate explosions with suppression systems (pg. 254).
- Control OSHA compliance costs (pg. 12).
- Test thermal stability and detonability easily and accurately (pg. 162).
- Maximize performance of dust collection systems (pg. 218).
- Integrate HAZOP analysis into process development (pg. 100).
- Start-up plants safely (pg. 16).
- Develop an R&D safety standards program (pg. 36).
- Ensure the safe operation of process vent collection systems (pg. 172).
- Understand flame and explosion quenching speeds (pg. 162).
- Successfully install and use thermal relief valves (pg. 213).

And more....

**Supplies limited –
respond TODAY!**

When you need to solve process safety problems, look to the expert source of practical ideas, advice, and applications ...

PROCESS SAFETY PROGRESS

Plant accidents don't just kill productivity, reputations, and profits – they can also kill people. Now *Process Safety Progress* offers you practical, proven strategies to meet the challenges of maximizing process safety.

Now you can maintain a stellar safety record and full OSHA and EPA compliance ... using the most efficient, cost-effective techniques and methods. *Process Safety Progress* is the only magazine specializing in the unique safety challenges of the chemical process industries.

Each issue regularly features news, editorials, research, and practical applications in these key areas:

- Safety evaluation.
- Risk assessment.
- Process hazards evaluation.
- Fire and explosion analysis.
- Hazardous chemicals management.
- Leak prevention.
- EPA and OSHA regulatory compliance.
- Process safety updates.
- Book and software reviews.
- Process safety Web sites and databases.
- Seminars, conferences, late-breaking legislation, and more.

Recent articles (just a sampling):

"Estimating the minimum ignition energy of hybrid mixtures"

"The effects of explosive blasts on structures and personnel"

"Municipal landfill leachate management"

"Flammability of dusts: minimum inerting concentrations"

"A process for removing hydrogen sulfide from gaseous streams"

"Heavy metal soil remediation"

"Removing cyanide from petroleum refinery wastewater"

"Stripping of VOCs from dissolved air flotation"

"A new method for recovering oil and heavy metals from sludge"

"Lean NOx reduction catalysts for controlling emissions from diesel engines"

"Using ozone to reduce effluent toxicity"

"Retrofitting industrial boilers for NOx control"

About the publisher

Process Safety Progress is published quarterly (four times a year) by the American Institute of Chemical Engineers (AIChE).

For nearly a century, the American Institute of Chemical Engineers has been the premier industry association for the chemical engineering profession. With over 57,000 members, AIChE is the chemical engineering discipline's largest – and oldest – professional society.

Process Safety Progress Risk-Free Subscription Request Form

YES! Please start my risk-free, 1-year subscription (4 quarterly issues) to *Process Safety Progress* for \$245 – and send my FREE bonus book, *Plant Safety*.

If I am not completely satisfied, I understand I can cancel my subscription at any time within the first 90 days for a full and prompt refund on all unmailed issues.

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