



Resources and Information Sources for the Sulphuric Acid Industry

2005 AIChE Clearwater Convention





If you have a question about sulphuric acid, where do you find an answer?

It could be a question on any of the following:

- Operation
- Maintenance
- Equipment design
- Regulatory requirements
- Materials
- Etc.



Fellow workers are a great resource

- They have years of direct experience with your plant and have worked on many problems over the years
- Resources can include operators, maintenance people, managers, etc.
- They are great mentors
- They are there at your plant site so you don't have to go far to meet with them



Vendors are a great source of knowledge and information

- They are experts in their field.
- They have a wide range of experience and large knowledge base.
- They can advise on operating and maintenance issues.
- They can provide inspection and servicing



Reference books have a wealth of information

Sulphuric Acid and Its Manufacture - Audin (1930)

Sulfuric Acid Manufacture (American Chemical Society - Monograph No. 69) – Fairlie (1936)

The Manufacture of Sulphuric Acid (American Chemical Society - Monograph No. 144) – Duecker and West (1959)

Sulfuric Acid; Use and Handling – Fasullo (1965)

Sulphur, Sulphur Dioxide, and Sulphuric Acid: An Introduction to their Industrial Chemistry and Technology – More (1984)

Handbook of Sulphuric Acid Manufacturing – Louie (2005)

Provide the latest in information

- Information is up-to-date
- Articles are written by people knowledgeable in the field

Sulphur – British Sulphur

6 issues a year



Sulfuric Acid Today – Keystone Publishing Publication

2 issues a year





Great networking opportunity

- Presentations and papers are up-to-date
- Meet others in the industry who have similar problems
- Workshops focused on specific problems
- Papers are published as pre-prints

AIChE Clearwater Convention

**Phosphate Maintenance
Roundtable**

Australasia Sulfuric Acid Workshop

Sulphur Conference



Experts in the field

- Very knowledgeable
- Wide range of experience
- Large number of experts in one location covering a variety of disciplines (i.e. process, mechanical, instrumentation, etc.)



Technology has changed the way we live and the way we do our jobs

- Wealth of information is available on the internet
- Instant access to information
- A lot of information is free
- No lack of information

'Sulphuric Acid' – +148,000 Hits

'Sulfuric Acid' – +329,000 Hits



Question and Answer Forums

- Post your questions
- People from around the world can participate
- Cyber conference
- Archives allow you to review previous questions and answers
- Anonymity

www.h2so4network.com

www.eng-tips.com



Technical Information – Codes, Standards & Publications

- Standards are available on-line for purchase

www.astm.org - The American Society for Testing and Materials

www.gpoaccess.gov/cfr/ - Code of Federal Regulations

www.asme.org - The American Society of Mechanical Engineers

www.nace.org - National Association of Corrosion Engineers

www.aiche.org - American Institute of Chemical Engineers

www.uspto.gov - US Patent and Trademark Office



More Technical Information

www.dupont.com/sulfurproducts/techdata/ - DuPont Sulfur Products

www.genchemcorp.com/products/sulfuricacid.shtml - General Chemical

www.msdsonline.com - MSDS Online

www.efma.org - European Fertilizer Manufacturers Association

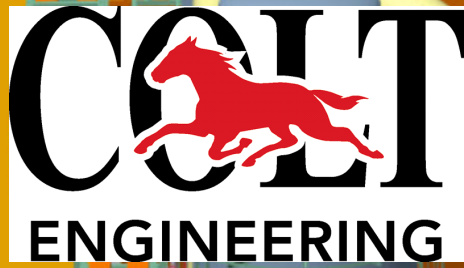
www.sulfuricsolutions.com - Monsanto Enviro-Chem Systems

www.sulphuric-acid.com - Sulphuric Acid on the Web



Resources for the Sulphuric Acid Industry

- There are a lot of resources available that you can use to get answers to your questions.
- You may need to try a number of different sources before you get the answers to your questions.
- You may get conflicting answers to your questions. It is then up to you to evaluate which is the best answer or solution to your problem.
- Keep your information organized so it can be easily accessed.



Thank you for your attention !