
January 2005

On the Cover

Follow this and additional works at: <https://jdc.jefferson.edu/scitechnews>

[Let us know how access to this document benefits you](#)

Recommended Citation

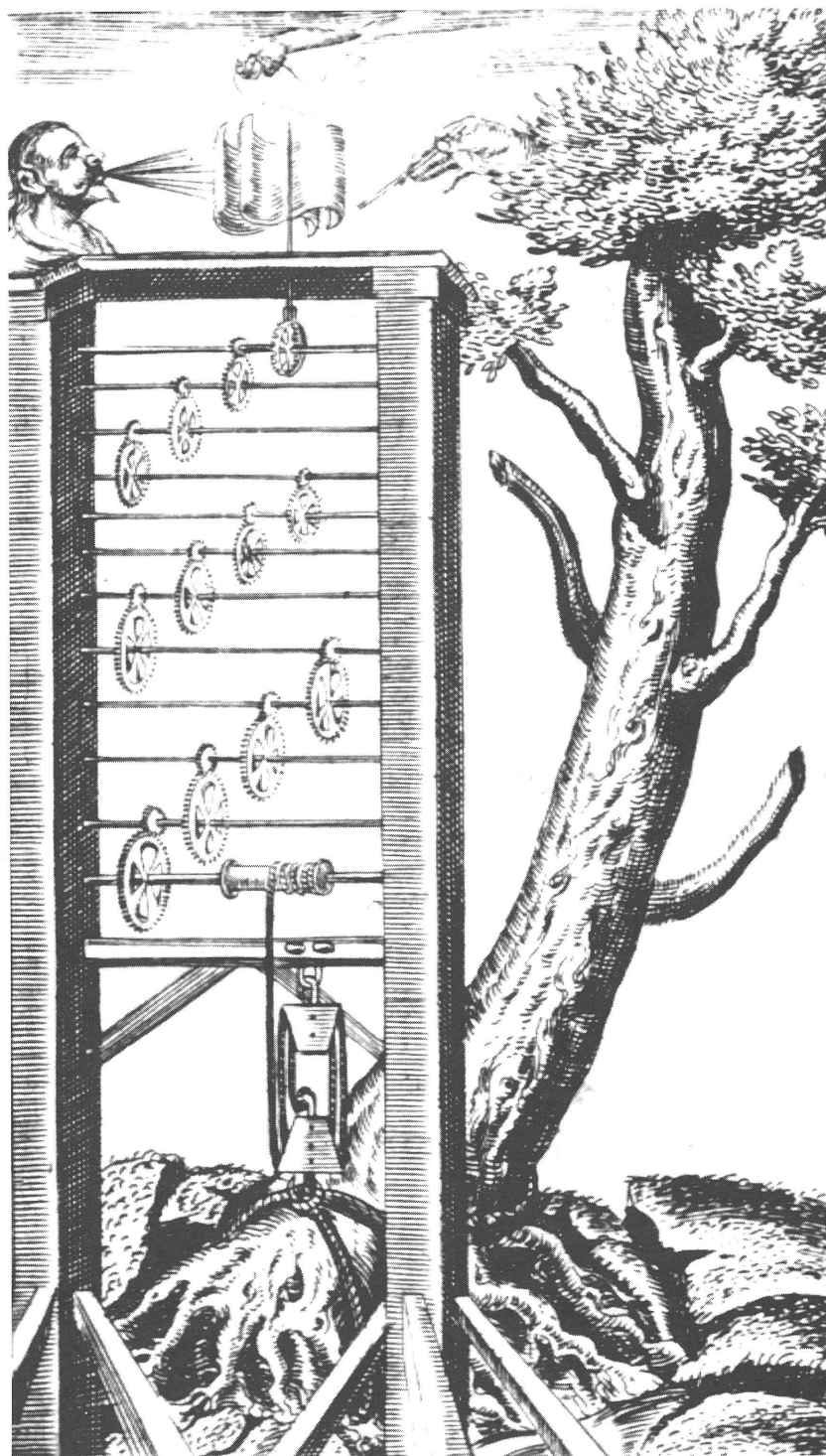
(2005) "On the Cover," *Sci-Tech News*: Vol. 59: Iss. 1, Article 1.

Available at: <https://jdc.jefferson.edu/scitechnews/vol59/iss1/1>

This Article is brought to you for free and open access by the Jefferson Digital Commons. The Jefferson Digital Commons is a service of Thomas Jefferson University's [Center for Teaching and Learning \(CTL\)](#). The Commons is a showcase for Jefferson books and journals, peer-reviewed scholarly publications, unique historical collections from the University archives, and teaching tools. The Jefferson Digital Commons allows researchers and interested readers anywhere in the world to learn about and keep up to date with Jefferson scholarship. This article has been accepted for inclusion in *Sci-Tech News* by an authorized administrator of the Jefferson Digital Commons. For more information, please contact: JeffersonDigitalCommons@jefferson.edu.

SciTech News

The Official Bulletin for the Chemistry, Engineering, Materials Research and Manufacturing, and Science/Technology Divisions and the Aerospace Section of the Engineering Division of the Special Libraries Association



Paterra, Inc.

Instant MT[®]

MACHINE
Translation
of Japanese Patents

An Internet translation service for those who need to track Japanese technology and still stay within a budget

- ◆ **Only \$39 per document, regardless of length**
 - Discounts and bonuses for Fixed Price (Subscription) Plans
 - Some Paterra client companies have saved more than \$1 million per year versus professional translation.
- ◆ **FAST! Download in minutes over the Internet**
 - Or place an order and come back later. InstantMT machine translation easily fits into your busy schedule.
- ◆ **Less than a week from publication to translation availability**
 - Quicker than any other translation service
- ◆ **Easy-to-use interface**
 - Enter Japanese patent numbers as you find them – no need to reformat.
- ◆ **Convenient output**
 - Searchable PDF, HTML and MS Word – all in the same order, all for one price
 - All images – where they should be in the document
- ◆ **Quality terminology**
 - We built our own modern, high-quality Japanese-English glossaries using our patented IPC-tagging methodology
- ◆ **6 million documents online**
 - ALL Patent Kokai documents since 1993
 - ALL Utility Model Kokai documents since 1993
 - ALL Granted Patents since May 1996
 - Japanese national phase PCT transfers since 1996
- ◆ **9 years serving the chemical industry**
 - Paterra pioneered machine translation of patents

WWW.PATERRA.COM

Paterra, Inc., 526 N. Spring Mill Road, Villanova, PA 19085
Tel: 800-430-5727, 610-527-4500 Fax: 610-527-2041
Email: sales@paterra.com

PRESENTATION!

**229th ACS National Meeting, San Diego,
March 13, 2005, 3:05 pm, CINF Careers
in Information Symposium:**

**“So you are thinking of
becoming an online
information entrepreneur”**

Sci-tech information is a \$7 billion industry. This industry is in revolution and nobody knows the outcome. Getting to market is easier and cheaper than ever before. Perhaps you have an innovative approach to contribute. Attend “So you are thinking of becoming an online information entrepreneur” for a no-punches-pulled review of experiences, tips and strategies.

SciTech News

Ellis Mount, Editor Emeritus



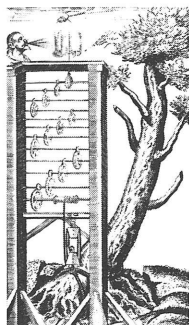
News from the Sponsoring Divisions

Chemistry Division	4
Engineering Division	8
Aerospace Section of the	14
Engineering Division	
Materials Research and	15
Manufacturing Division	
Science-Technology Division	16

Departments

From the Editor	3
Web Reviews	29
New Science and Technology Journals	32
SciTech Book News Reviews	36

On the Cover



When Archimedes said, "Give me a place to stand, and I will move the earth," he was intending to illustrate the law of the lever. In the seventeenth century, however, several writers on mechanics wondered whether a gear train might be more feasible for an earth-moving enterprise. John Wilkins, in his *Mathematicall Magick* (London, 1648), shows us a twelve-gear machine lifting a tree with a mere breath of air as a motive force. But in the text, Wilkins points out that the same twelve gears, with an advantage of 100:1 for each gear, could raise the world, using an initial force of only one-hundredth of a pound. Of course, he did not solve the problem of just where we should put this machine while it lifts the earth from its traces. (Photo and caption courtesy of the Linda Hall Library of Science, Engineering & Technology.)

Index of Advertisers

ACS	5
STN	inside back cover
McElroy	12
Paterra	inside front cover
We Buy Books	6
Wiley	7

Copy Deadline

February Issue	Jan 5
May Issue	April 5
August Issue	July 5
November Issue	Oct 5

SciTech News

Volume 59, Number 1 February 2005
ISSN 0036-8059

Editor Emeritus
Ellis Mount

Editor
Susan M. Fingerman
The Johns Hopkins University
Applied Physics Laboratory
Laurel, MD
Susan.Fingerman@jhuapl.edu

Assistant Editor
Christina K. Pikas
Christina.Pikas@jhuapl.edu
Laurel, MD

Subscription Manager
Susan Fingerman (Acting)

Advertising Manager
Susan Fingerman (Acting)

Business Manager
Valerie Perry
vperry@uky.edu
Lexington, KY

Department Editors

Sci-Tech Book News Reviews
Selector: Ellis Mount
471 Emerson Ave.
Teaneck, NJ 07666
ellismount@yahoo.com

New Science and Technology Journals
Editor: Earl Mounts
Alcoa Technical Center
100 Technical Drive
Alcoa Center PA 15069
(724) 337-2396
earl.mounts@alcoa.com

Web Reviews
David Hook
MD Robotics Ltd.
Brampton, Ontario L6S 4S3
dhook@mdrobotics.ca

SCI-TECH NEWS (ISSN 0036-8059) is published quarterly (February, May, August, November) by the Chemistry, Engineering, Materials Research and Manufacturing, and the Science-Technology Divisions and the Aerospace Section of the Engineering Division of the Special Libraries Association, 11100 Johns Hopkins Road, Laurel, MD 20723-6099, (443) 778-4301. Periodicals postage paid at State College PA and additional mailing offices. **POSTMASTER:** Send address changes to **Sci-Tech News**, Susan Fingerman, RE Gibson Library and Information Center, 11100 Johns Hopkins Road, Laurel, MD 20723-6099, (443)778-4301, Susan.Fingerman@jhuapl.edu. Printed in U.S.A.

Publication Policy: *Sci-Tech News* is the official bulletin of the Chemistry, Engineering, Materials Research and Manufacturing, and Science-Technology Divisions and the Aerospace Section of the Engineering Division of the Special Libraries Association. The contents of articles and editorials are not to be construed as being or representing the official position of the sponsoring divisions.

Disclaimer: Special Libraries Association assumes no responsibility for the statements and opinions advanced by the contributors to the Association's publications. Editorial views do not necessarily represent the official position of the Special Libraries Association. Acceptance of an advertisement does not imply endorsement of the product by the Special Libraries Association.

Manuscripts: The editor solicits papers of interest to the community of science and technology-oriented special libraries. Manuscripts of articles should be typed double-space, or sent via E-mail (Microsoft Word or WordPerfect format) to the editor's address: Susan.Fingerman@jhuapl.edu or send by FAX to: (443) 778-5353.

Subscriptions: Special Libraries Association members in the Chemistry, Engineering, Materials Research and Manufacturing, and Science-Technology Divisions and the Aerospace Section of the Engineering Division automatically receive subscriptions to **Sci-Tech News**. Their annual subscription fee of \$3.50 is paid from their annual dues to the Special Libraries Association. All others may subscribe for \$20.00 (U.S. subscribers) and \$22.50 (Foreign subscribers). Inquiries concerning subscriptions should be sent to the subscription manager.

Address Changes: These should be communicated to either the Special Libraries Association, Membership Department, 331 South Patrick Street, Alexandria, VA 22314-3501 USA, membership@sla.org by those who receive **Sci-Tech News** as a consequence of their membership in one or more of the sponsoring divisions, or to the subscription manager, by all other subscribers.

Offices: *Sci-Tech News*, c/o Editor, Susan Fingerman, Johns Hopkins University Applied Physics Laboratory, RE Gibson Library and Information Center, 11100 Johns Hopkins Road, Laurel, MD 20723-6099, (443)778-4301, Susan.Fingerman@jhuapl.edu. Business Manager, Valerie Perry, University of Kentucky, N24 Agriculture Sci Ctr North, Lexington, KY 40546-0091, (859)257-2758, email: vperry@uky.edu. Advertising: Susan Fingerman. Subscriptions: Susan Fingerman. Printed by John S. Swift, Teterboro, NJ.