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April 2026

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एन सी ई आर टी
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Preface

The Library and Documentation Division (LDD) of the National Council of Educational Research and Training (NCERT), serves as a crucial hub for information, research, and academic resources, supporting the diverse needs of educators, researchers, and policy-makers in education. Established to foster an environment conducive to educational excellence and innovation, LDD plays a pivotal role in the dissemination of knowledge and the promotion of advanced learning in the field of academic research. LDD is recognized for its hybrid collection of old and new print collections of books, journals, reports, and other reference collections.

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With the mandate of Prof. Dinesh Prasad Saklani, the Hon'ble Director, NCERT, the Library and Documentation Division executes several specialized services for its patrons known as *edudoc services*. In this edition of "EDUDOC SERVICES: CURRENT CONTENT," the LDD has delved into and presented a compilation of content pages of the recommended journals by the departments available through ONOS for the month of April 2026. The service facilitates connecting academicians with published articles in journals. For all the journals a hyperlink has also been provided for ease of navigation to the digital contents of the journals. Library and Documentation Division (LDD) at NCERT cordially invites academicians to explore and utilize our extensive collection of the recommended print journals and the journal available through ONOS. Suggestions are solicited to spruce up the library services better in honor of effectively and efficiently serving the academic community.

(Dr. Akash)
Head, LDD
NCERT, New Delhi

S.NO.	NAME OF JOURNALS	VOLUME NO.	ISSUE	MONTH	YEAR	PAGE NO.	PRINT OR ONLINE
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2.	The Journal of Economic Education	57	2	April-June	2026	2-6	Online
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May 2026

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Tisha L. N. Emerson, Gail M. Hoyt & John Siegfried

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Gregory Casey

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Kristen B. Cooper, Ori Heffetz, John Ifcher, Ekaterina Oparina & Stephen Wu

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Monica Galizzi & Kristin Gallas

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Nigar Hashimzade, Oleg Kirsanov & Tatiana Kirsanova

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Aselia Urmanbetova, Philip Vinson, Jessica Dill, Peter Kower, Megan Houck, Alex Blecker & Perry Taylor

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GLOBALISATION, **S**OCTETIES AND **E**DUICATION

Special Issue:
Student Activism, Translocality, and Social Justice

Guest Editors:
Gritt B. Nielsen and Thierry M. Luescher

ISSN 1476-7724




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Student Activism, Translocality, and Social Justice; Guest editors: Gritt B. Nielsen and Thierry M. Luescher

Introduction



Article

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Gritt B. Nielsen

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Mariam P. Sheikh

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Hamza R'boul

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Tenna Foustad Harbo

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Jason Litzenberg & Anneka Fraser

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Articles

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Flexibility with Guardrails: Three Approaches to Quiz Due Dates in an Introduction to Meteorology Course >
 Ryan P. Shadbolt

Pages: 87-92

Published online: 11 Mar 2026

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Transformative Education in Geography: Conceptual Trajectories and Teaching Practices >

Eva Nöthen & Verena Schreiber

Pages: 93-102

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Gapcheol Kim

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Samantha M. Serrano

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LANGUAGE LEARNING

A Journal of Research in Language Studies

Volume 76

Number 2

June 2026

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Editorial

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Transforming fifth graders' misconceptions in solving probability comparison problems with purposefully designed instructional interventions >

Shengqing He & Yan Ping Xin

Pages: 133-155

Published online: 15 Sep 2024

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Martin A. Simon

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Developing initial notions of variability when learning about box plots >

Martin Abt, Timo Leuders, Katharina Loibl & Frank Reinhold

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Marian Hickendorff & Marc van Zanten

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Article

Identifying the types of collective engagement structures that manifest in middle-grade mathematics classrooms >

Tye Campbell, Michael Lawson, Erin Rich, Sheunghyun Yeo & W. Boden Robertson

Pages: 222-245

Published online: 30 Dec 2024

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Book Review

Book Review

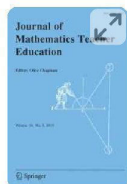
A century of ICMI—A century of mathematics education >

Fulvia Furinghetti, Livia Giacardi. (Ed.) The International Commission on Mathematical Instruction, 1908-2008: People, Events, and Challenges in Mathematics Education, edited by Cham, Switzerland: Springer (International Studies in the History of Mathematics and its Teaching), 2022, xxvi+735 pp., ISBN 978-3-031-04312-3 (Hardcover). \$179.99.

Michael N. Fried

Pages: 246-251

Published online: 04 May 2025



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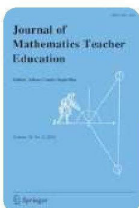
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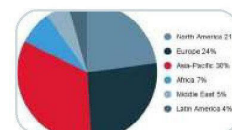


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April 2026

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Addressing equity, diversity and inclusion in academic publishing: key initiatives from JMTE



BriefCommunication | Open access | 06 May 2024 | Pages: 169 – 179

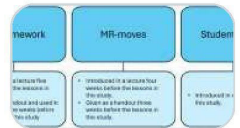
Exploring teachers' eye-tracking data and professional noticing when viewing a 360 video of elementary mathematics

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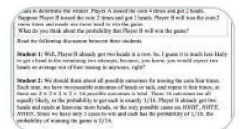
Tools to support learning to plan discussions that promote students' mathematical reasoning

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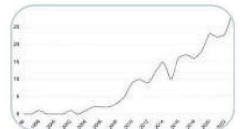
Prospective and in-service teachers' use of pedagogical mathematical practices in approximations of teaching practice

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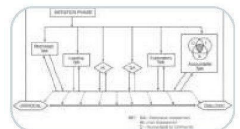
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OriginalPaper | 20 December 2024 | Pages: 269 – 343



First- and third-person mathematics-related teacher identity: capturing the learning pathway of an out-of-field teacher of mathematics acquiring mathematics teacher certification

OriginalPaper | 18 December 2024 | Pages: 345 – 378

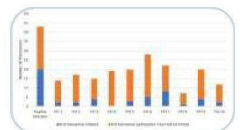


Preparing middle and high school teachers for teaching mathematical modeling: building curriculum vision and trust through curricular and professional noticing

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In-the-moment discussions during launch rehearsals: an analysis of participation, substance, and structure

OriginalPaper | 10 January 2025 | Pages: 411 – 432



Influence of pre-service primary school teachers' prior knowledge of measurement and measurement estimation in solving modelling problems



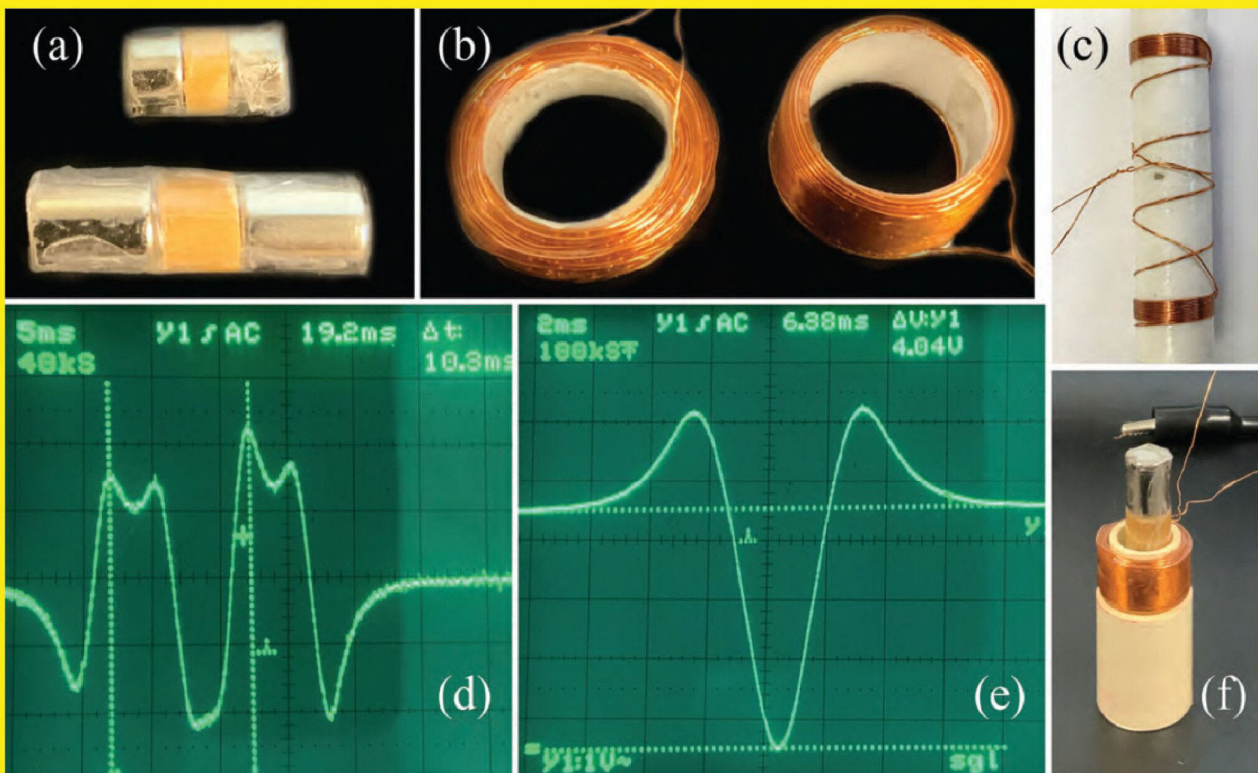
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AMERICAN JOURNAL *of* PHYSICS

Volume 94, No. 5, May 2026



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EDITORIAL

In this issue: May 2026 

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Am. J. Phys. 94, 341–342 (2026) <https://doi.org/10.1119/5.0335794>

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LETTERS TO THE EDITOR

Self force on Dirac monopoles 

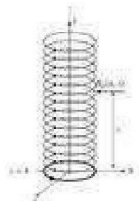
[Kirk T. McDonald](#)

Am. J. Phys. 94, 343–344 (2026) <https://doi.org/10.1119/5.0313789>

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Self-force of a Dirac string: An explicit calculation 

[Alberto G. Rojo](#)

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PAPERS

A dimensional analysis path to h and the Bohr atom structure

[Kostas Glampedakis](#)Am. J. Phys. 94, 346–350 (2026) <https://doi.org/10.1119/5.0292670>

Editor's Note: Dimensional analysis provides an essential check on calculations, but it can also show the way to interesting new physics. In this article, the author explores an alternative timeline for atomic physics, in which a classical physicist at the turn of the 20th century uses dimensional analysis to deduce the Bohr energy and Bohr radius of the hydrogen atom—more than a decade before Bohr himself!

This clear and instructive demonstration of techniques of dimensional analysis could easily be incorporated into a modern physics course or a first course in quantum mechanics. The article also paints an interesting historical picture of physics that will appeal to anyone who speculates about how the history of 20th century physics might have played out differently.

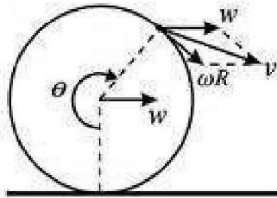
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A note on the kinematic boundary condition with historical perspective

[G. R. Hunt; J. P. Webb](#)Am. J. Phys. 94, 351–358 (2026) <https://doi.org/10.1119/5.0298780>

Editor's Note: One famous result from fluid mechanics is that the normal component of a fluid's velocity must be zero at a boundary. Students and teachers sometimes infer from this statement that no fluid may move to or from a boundary surface. Yet, as the authors show, this is not always the

case! Drawing on examples proposed by Kelvin and presenting a striking new demonstration, the authors offer persuasive arguments that there are indeed cases where fluid arrives at or departs from a boundary surface, even though the normal component of fluid velocity remains zero at the boundary surface.

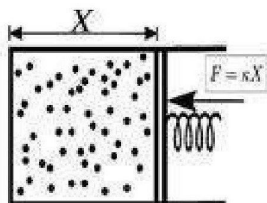
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The “Littlewood's” hopping hoop dynamics

Andrey A. Aglaev; Alexander K. Kovaldji

Am. J. Phys. 94, 359–362 (2026) <https://doi.org/10.1119/5.0291968>

Editor's Note: John E. Littlewood proposed the notorious problem: “A weight is attached to a point of a rough weightless hoop, which then rolls in a vertical plane, starting near the position of unstable equilibrium. What happens, and is it intuitive?” The variety of answers that have appeared in the literature over the last several decades indicates that, whatever might happen, the result is not intuitive! Here, the authors present a new argument that the hoop will either hop at the instant of release, or not at all.

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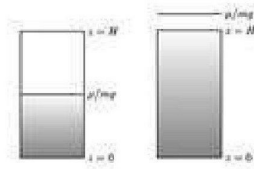
The ideal gas with a harmonic piston and the constant pressure-to-volume ratio ensemble

Fabrcio Q. Potiguar

Am. J. Phys. 94, 363–368 (2026) <https://doi.org/10.1119/5.0208569>

Editor's Note: Students sometimes develop a misconception that one of the variables in the ideal gas law (pressure, volume, or temperature) must always remain fixed as these are the most common situations in problems or experiments. Having simple, physically realizable situations where multiple

fundamental state variables change simultaneously can help to build deeper intuition for thermodynamic processes. One such simple system is discussed in this article—a container of ideal gas fitted with a movable piston which is coupled to an ideal spring. The system's internal energy and heat capacity are calculated using several complementary methods of increasing complexity, which can be employed in elementary thermodynamics courses or more advanced statistical mechanics courses.

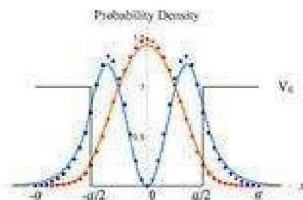
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An ideal Fermi gas under uniform gravity

Pattarapon Tanalikhit; Wittaya Kanchanapusakit

Am. J. Phys. 94, 369–374 (2026) <https://doi.org/10.1119/5.0300463>

Editor's Note: This paper shows how to find the thermodynamic properties of a Fermi gas in a uniform gravity field. Most of the treatment is within the Thomas–Fermi approximation, in which the gas is assumed to have a uniform local density that varies as a function of height, although the paper presents a short treatment of the fuller quantum mechanical problem. This analysis could form the basis of a challenging problem in a statistical mechanics course.

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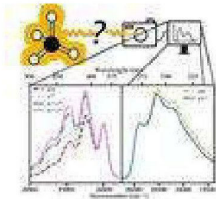
From discrete states to wavefunctions

Martin Kamela

Am. J. Phys. 94, 375–379 (2026) <https://doi.org/10.1119/5.0255882>

Editor's Note: When teaching the spins-first approach to quantum mechanics, it can be challenging to help students make the transition from working with discrete states of spins to working with continuous states of

position and momentum. The author shares an approach in which space is discretized, leading to an approximation of the continuous wavefunction, providing a bridge from discrete to continuous states.

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From raw data to processed spectra: A step-by-step guide



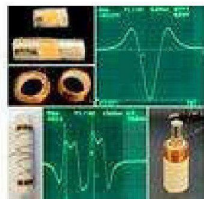
Erik F. Woering; Richard Hildner

Am. J. Phys. 94, 380–388 (2026) <https://doi.org/10.1119/5.0250104>

Editor's Note: A well-known issue in optical spectroscopy is that measurements are typically reported as functions of wavelengths, whereas the physically relevant quantities depend on energy. This paper offers a comprehensive review of how to perform the conversion correctly. As such, it should be extremely useful to both students and educators alike whenever they tackle problems in spectroscopic analysis.

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INSTRUCTIONAL LABORATORIES AND DEMONSTRATIONS

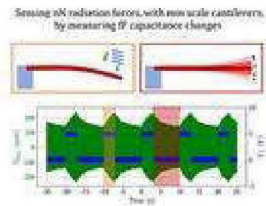


The Kibble balance: A low-cost implementation as an undergraduate laboratory experiment or demonstration

P. A. Stampe; R. J. Kennedy

Am. J. Phys. 94, 389–396 (2026) <https://doi.org/10.1119/5.0306495>

Editor's Note: This paper presents a low-cost realization of a dynamic Kibble balance, an electromagnetic-based setup that enables an object's mass to be determined without the use of balance. Data are gathered in a two-step experiment in which a magnetized “pellet” is first levitated in a coil and then dropped through the coil in order to generate an induced voltage. These data are then compared to relations derived from basic electromagnetic theory yielding the pellet's mass, whose value is shown to compare favorably to that obtained using a standard balance. The authors present a straightforward version of this experiment that is suitable for use in first-year physics laboratories as well as extensions that are appropriate for advanced laboratory students.

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Measurement of electromagnetic radiation force using a capacitance bridge interferometer

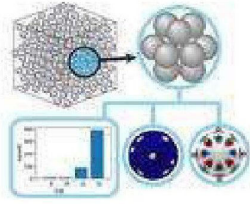
Devashish Shah; Pradumn Kumar; Pradeep Sarin

Am. J. Phys. 94, 397–404 (2026) <https://doi.org/10.1119/5.0232550>

Editor's Note: Radiation pressure can be a difficult concept for students to grasp. One can exhibit the use of radiation pressure to power spacecraft, but, in the end, the concept often remains elusive. This paper proposes an experiment to actually measure the radiation pressure created by a pulsed laser on a metal cantilever, which also serves as one arm of a capacitor. The cantilever then oscillates and the corresponding change in capacitance measured. Your students will be amazed to see that, with a simple setup and a bit of care, they can measure nano-newton-scale forces produced by photons hitting a metal surface. This experiment is appropriate for undergraduate E&M labs, but also for electronics labs, since it uses a capacitance bridge, a home-built amplifier for small-signal detection, and makes use of an electronic simulation platform as well as of FFTs.

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COMPUTATIONAL PHYSICS



Local structure characterization in particle systems

R. S. Skye; E. G. Teich

Am. J. Phys. 94, 405–420 (2026) <https://doi.org/10.1119/5.0323820>

Editor's Note: The authors provide an accessible review of how to compute many measures of the local environment of particle-based systems and what can be learned from each of the different measures. The Jupyter notebooks in the supplementary material can be used to reproduce the results discussed in the paper and as an aid to the suggested problems.

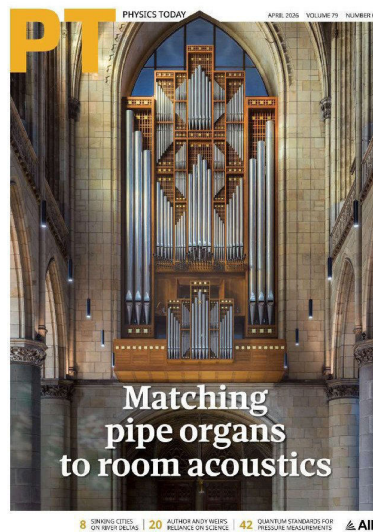
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On the cover

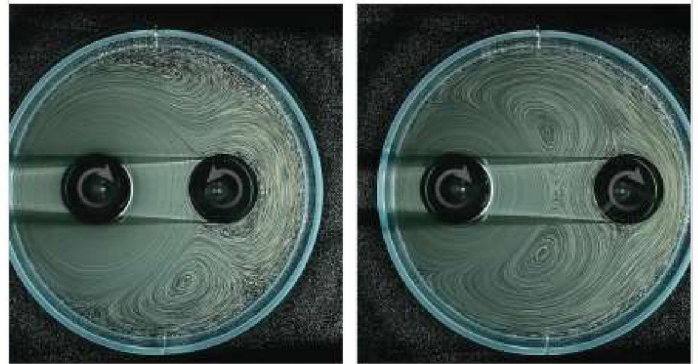
Built in 1968 by the Danish company Marcussen & Son, the pipe organ pictured here is located in the New Cathedral in Linz, Austria. Its 5890 pipes are divided into 70 rows, known as stops, that each have a different sound character. The pipes in an organ need to be tailored to the acoustics of the space in which the instrument will be installed. To learn more about pipe organ acoustics, see the [Quick Study](#) by Judit Angster, Josep Llorca-Bofi, and András Miklós. (Photo by Uoaei1/Wikimedia Commons/[CC BY-SA 4.0](#)/cropped and brightened from original.)

News



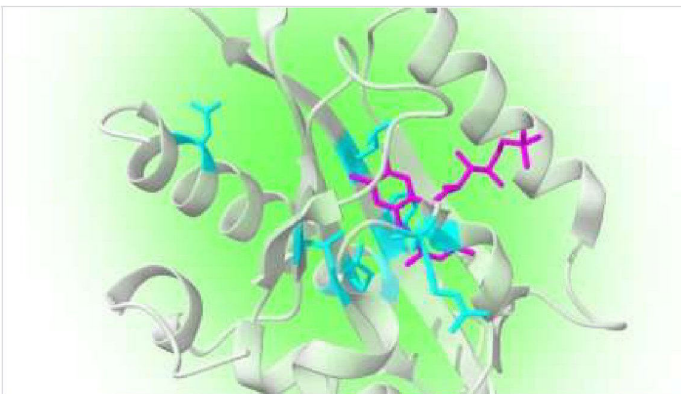
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Cities built on river sediment are sinking



NEWS / ARTICLE

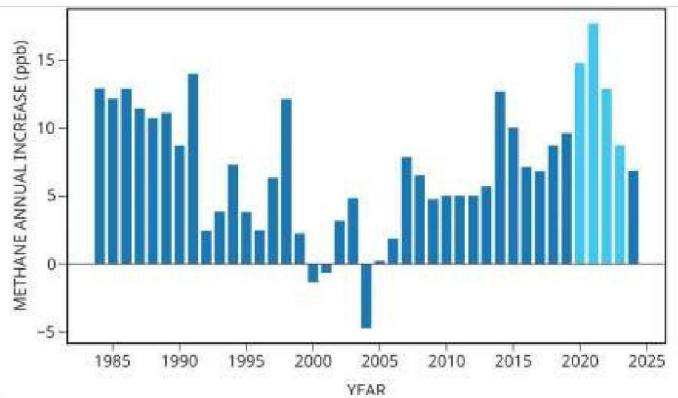
Fluid-coupled rotation demonstrates unexpected modes of motion



NEWS / ARTICLE

Genetically engineered protein is a versatile quantum sensor

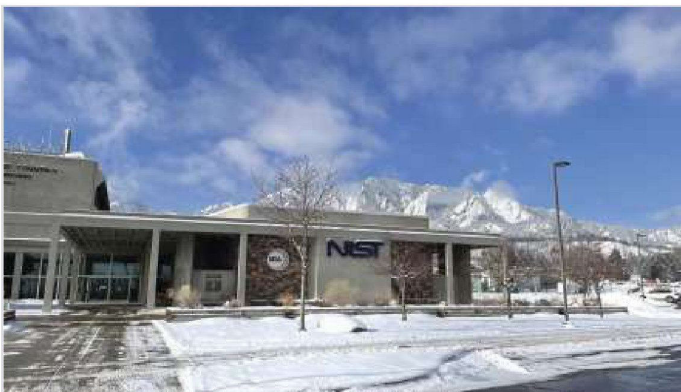
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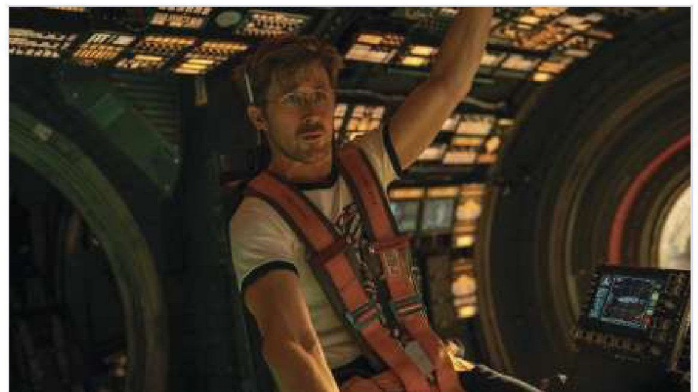
Reduced pandemic emissions contributed to atmospheric methane surge

MAR 12, 2026



NEWS / ARTICLE

NIST to introduce restrictions on non-US citizens

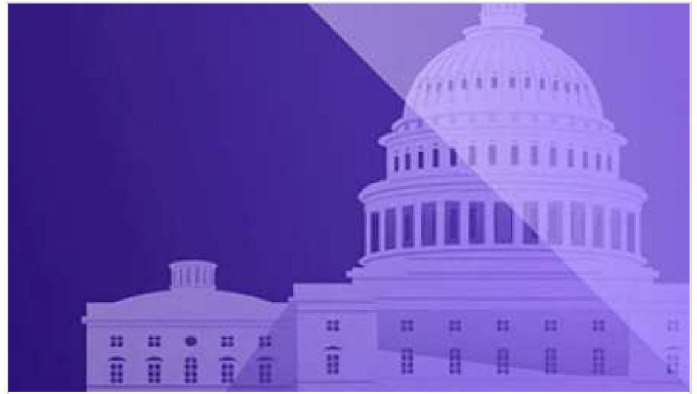
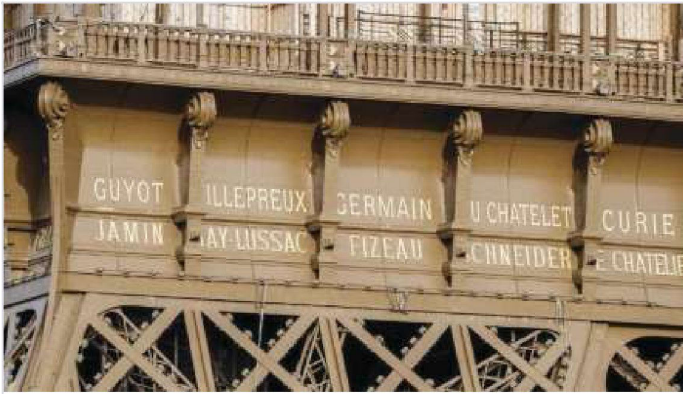


NEWS / ARTICLE

Science inspires, but does not limit, Andy Weir's fiction

FEB 27, 2026

MAR 19, 2026



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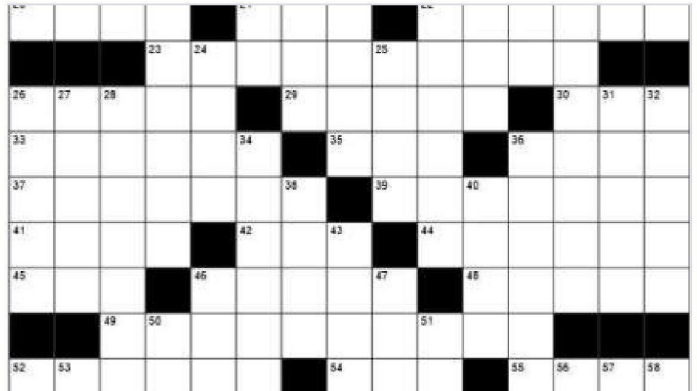
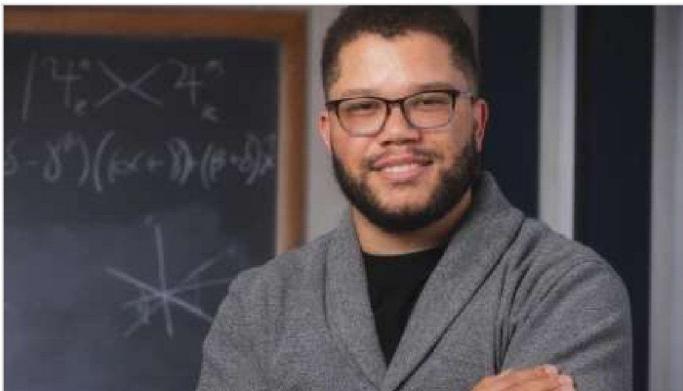
Eiffel Tower to gain symmetry with addition of women's names

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Kevin Ingles writes code for electrical engineering applications

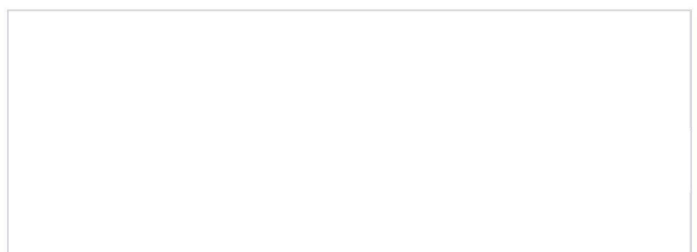
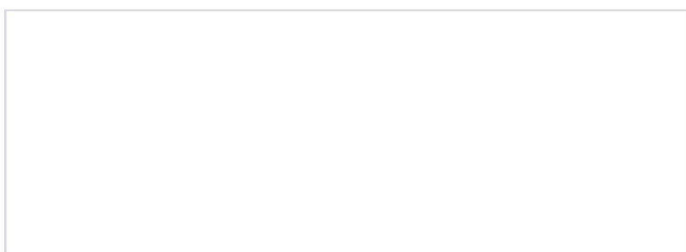
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Crossword: Divergence versus convergence

MAR 30, 2026

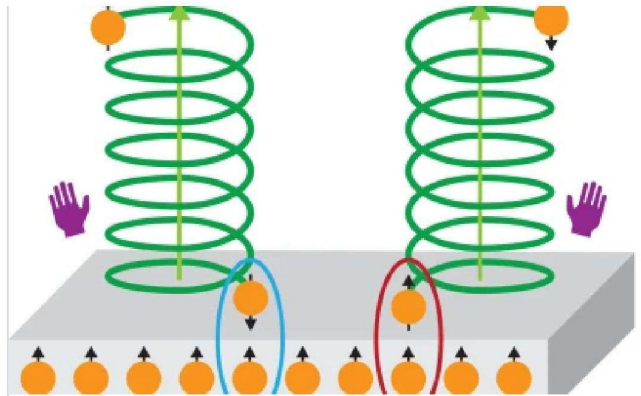
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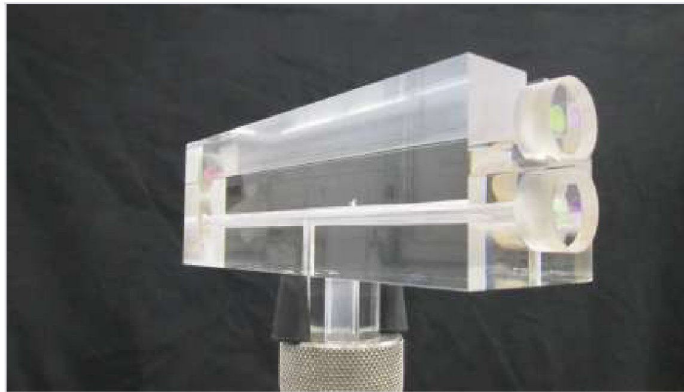
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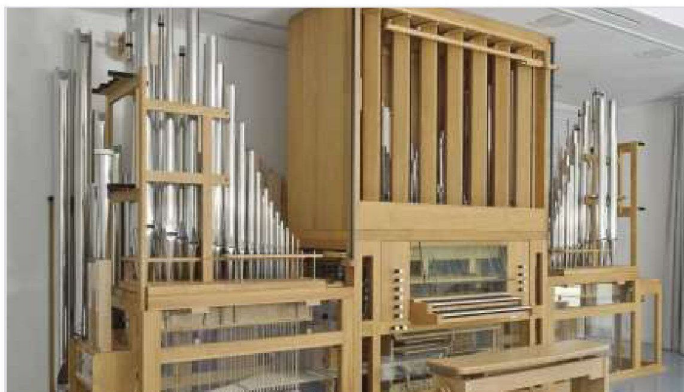


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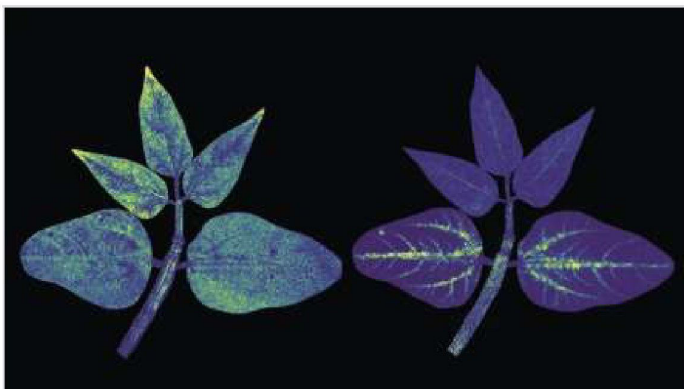


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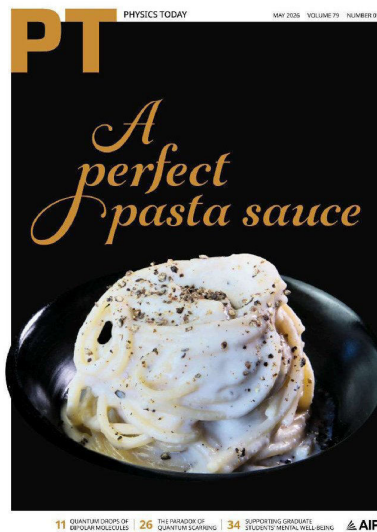
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Cacio e pepe is a popular Italian pasta dish whose rich, velvety sauce is made of an emulsion of pecorino cheese and black pepper. Cooking a cacio e pepe sauce that deliciously clings to each piece of pasta is not just a culinary achievement but a scientific one. To learn how the physical properties of pasta ingredients interact to make the perfect sauce, read the [Quick Study](#) by Daniel Maria Busiello, Vincenzo Schimmenti, and Ivan Di Terlizzi. (Photo by Simone Frau.)

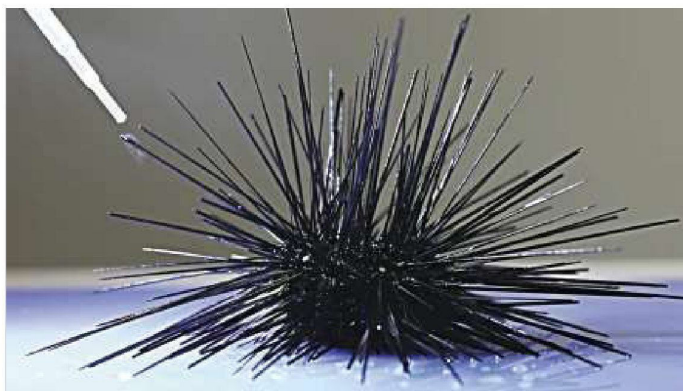
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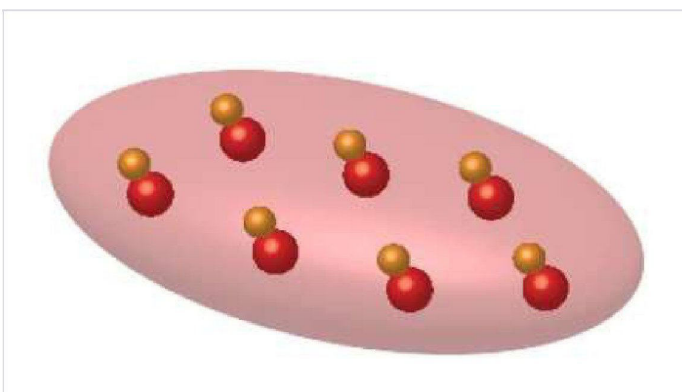
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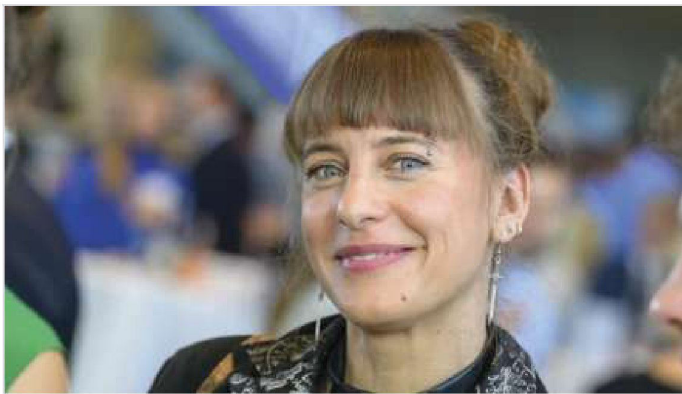
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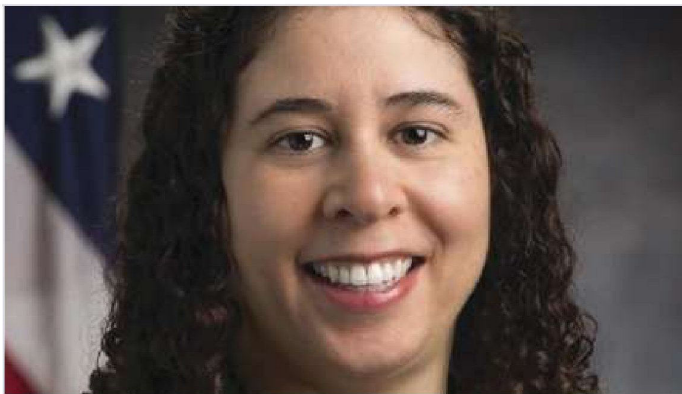
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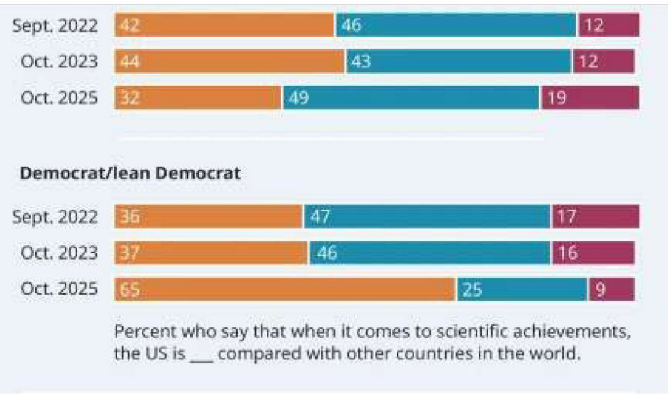
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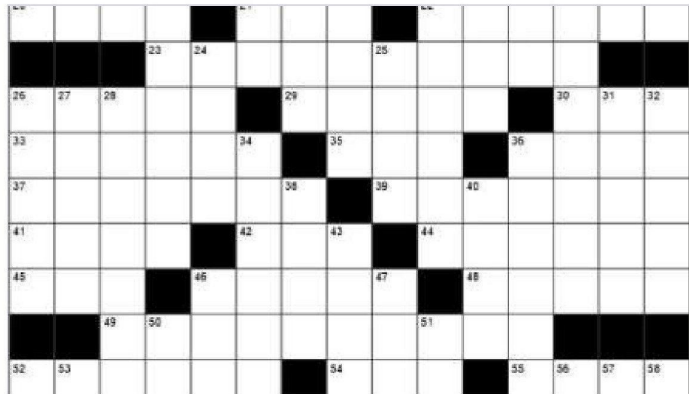
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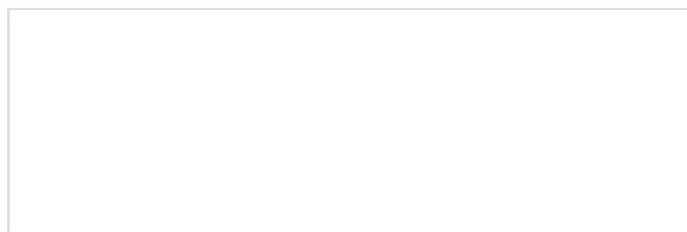


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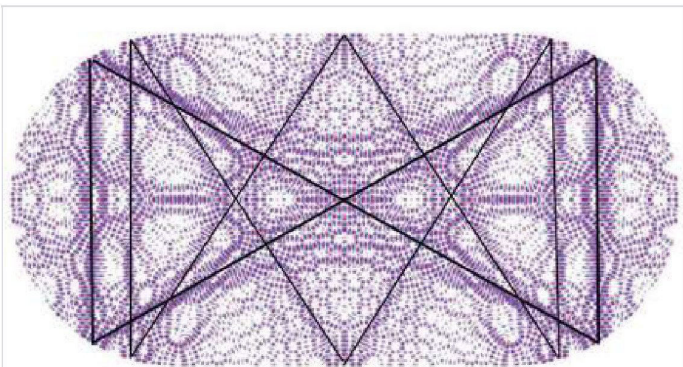
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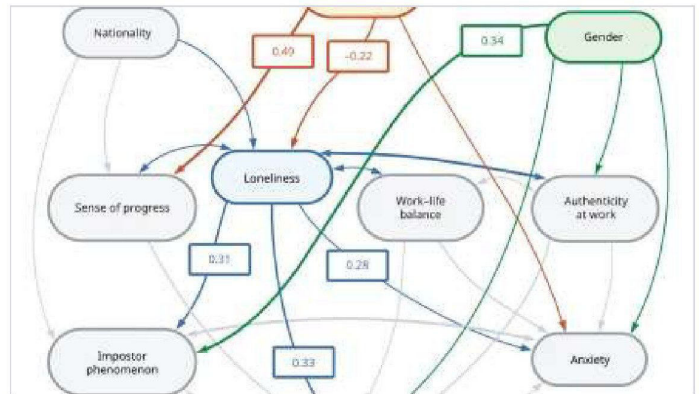
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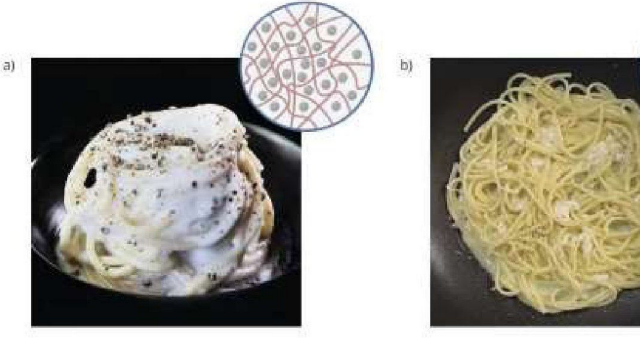
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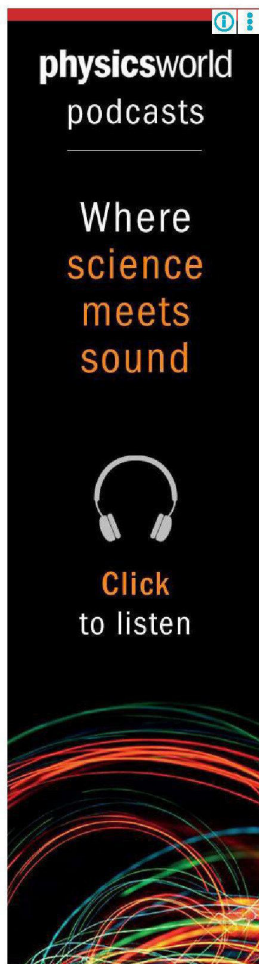
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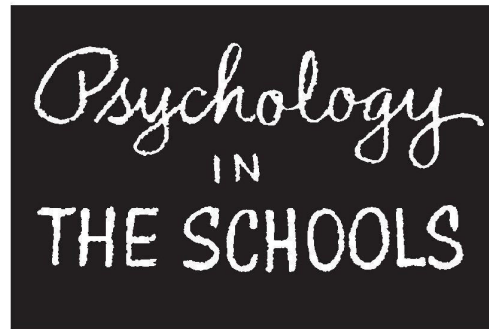
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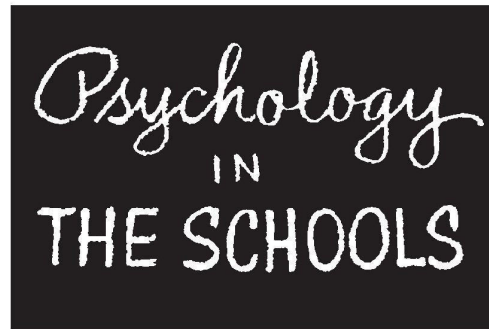
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Carb Detective: Developing a Compelling Board Game to Learn About the Classification of Monosaccharides

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Chain	Description	UnitProt
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a b c d e f g h i j k l m n o p q r s t	ANTI-venacular stomatitis virus N VHI	
U V W X	RNA(4-Smer)	

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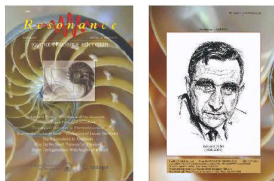
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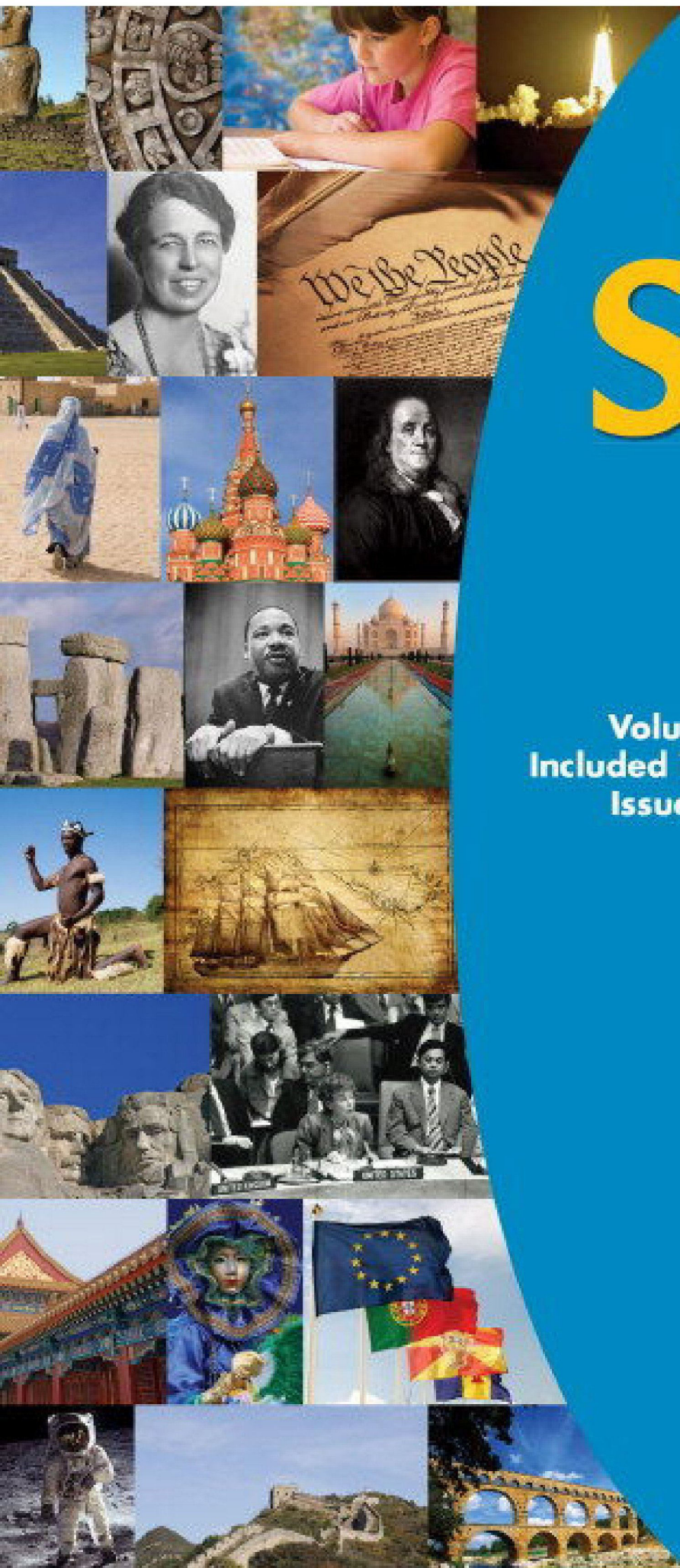
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