

EDUDOC SERVICES

CURRENT CONTENTS

NOVEMBER- 2018



LIBRARY AND DOCUMENTATION DIVISION
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Introduction

“Current Contents” prepared by Library and Documentation Division aims to identify the articles published in the learned journals received by the library in the month of November, 2018.

Current Contents are arranged alphabetically under the broad subject headings. It gives the details about the name of the Journal, volume, issue month and year of publication. It will be our endeavour to bring out this as a reference tool, which will make our readers aware about the current contents available in different learned journals of their subject of interest.

Current Contents will be useful to our faculty members in selecting/recommending relevant articles for their research.

Keeping in mind the integration of ICT and Digitisation, attempt has been made to provide the Web-link of the current issues, which will facilitate the readers to access the articles, except the ‘*’ marked journal titles

We eagerly await to received your views and comments.

(Prof. Saroj Yadav)
Chairperson, LDD,
NCERT, New Delhi.

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अक्षरपर्व

'अक्षर पर्व' इंटरनेट पर लॉग करें - www.aksharparv.com

R.N.I. No. 69496/98, ISSN No. 2278-9766, hindi postal registration/Raipur division /01/2017-2019

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साहित्यिक-वैचारिक मासिक

अक्षर पर्व

संपादक

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आवरण

ओ पी कादयान

रेखाचित्र

ओ पी कादयान

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महावीर प्रसाद साहू

रूप सज्जा

किशोर सिंह

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पत्रकार प्रकाशन प्रा.लि. रायपुर से
मुद्रित एवं प्रकाशित.

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संस्कृति पर केन्द्रित दस मासिक अंक
प्रत्येक का मूल्य 30 रु.

और साथ में

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रचना वार्षिकी उत्सव अंक

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1. सभी रचनाकारों से विनम्र अनुरोध है कि जहां तक संभव हो अपनी रचना ई-मेल से भेजने का कष्ट करें। यह आप और हम दोनों के लिए अधिक सुविधाजनक है।
2. कृपया रचना के अंत में अपना पूरा पता, मोबाइल नंबर और ई-मेल पता लिखने का कष्ट करें।
3. आपका फोटो और संक्षिप्त जीवन परिचय भी ई-मेल से भिजवा दें ताकि हम उसे सुरक्षित कर लें।
4. यदि आप साधारण डाक से प्रकाशनार्थ सामग्री भेज रहे हैं तो वह दिल्ली के पते पर भेजें।
5. अक्षर पर्व की अधिकतर प्रतियां डाक से भेजी जाती हैं यदि प्राप्ति में कोई व्यवधान हो या आपका पता बदल गया हो तो aksharparv@gmail.com इस पते पर ईमेल करें।
6. समीक्षा के लिए आपकी पुस्तकों का स्वागत है, किन्तु स्थान सीमित है। जिन पुस्तकों की समीक्षाएं स्वीकृत हैं, उनके प्रकाशन में भी समय लग सकता है, अतएव धैर्य रखें।

संपादक

THE AMERICAN BIOLOGY TEACHER



About Our Cover

Long-eared owl (*Asio otus*), also referred to as the northern long-eared owl, is an orange, brown, and white owl with bright, large yellow eyes. This owl is not well-known and is a rarely seen and secretive owl that belongs to a group of owls known as typical owls. Long-eared owls are medium-sized owl about 30–40 cm in length with a wing span of 85–100 cm and a body mass of 70–450 g, with the female being larger and darker-colored than the male. These owls are known for their erect, tri-colored ear tufts of feathers that presumably make them appear larger than they are. Long-eared owls inhabit mostly dense forests, open grassland or meadow habitats and hunt small mammals such as voles, mice, rats, and gophers as well as birds, bats, lizards, and snakes, mostly at night. These owls swallow their prey whole and then regurgitate indigestible parts in pellets (usually one per day), which can be found under their roosts. Such owl pellets are often prized by biologists and biologists determine the diet of the owl and are a great teaching tool for laboratory exercises. A long-eared owl is a resident of North America, Europe, and Asia. Like many birds, the long-eared owl tends to move north to breeding grounds in the summer, then south during winter. These birds nest mostly in trees, but they also nest in cacti or on cliffs and may use abandoned nests of other birds. The female lays 2–10 eggs that she incubates 26–28 days while the male feeds the young. The young owls can begin to make short flights at about 5 weeks of age. The conservation status of the long-eared owl is well-known, but declining populations are suspected as a result of habitat loss. The owl pictured here was unexpectedly found and photographed sunning on a broken tree stump on the edge of its breeding range near Quesnel, British Columbia, in late autumn. Roy Rea, a biology instructor at the University of Northern British Columbia, in Prince George, BC, Canada, captured this photo on November 3, 2016, with a Canon 5D Mark 3 and a Canon 300mm/2.8 lens and 2x extender.

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Errata

The ABT editorial office has been notified of two errors in the article entitled "Scientific Methods of Biology, Starting with Charles Darwin," *ABT*, 78(2) (2016): 109–17. The author has asked that the following corrections be made:

Under the heading "Testing Darwin's Concept..."

- The first paragraph, second sentence should read: *The concept of "universal common ancestry (UCA) is a central pillar of modern evolutionary theory" (Theobald, 2010, p. 219); however, both the status and the nature of UCA have been questioned by several authors (Yonezawa & Hasegawa, 2010).*
- The second paragraph, second sentence (also quoting Theobald) should read: *Using model selection theory to identify the hypothesis closest to reality, he found that UCA is the most accurate and parsimonious hypothesis—"at least 10^{2,000} times more probable" than the competing hypotheses of independent or parallel origins of different taxa in the three domains of life (Eukarya, Bacteria, and Archaea).*

We apologize for any confusion or inconvenience caused by the errors included in the original article.

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Cover figure: Inexpensive probe stations to be used by students to characterize metal oxide semiconductor capacitors (MOSCAPs). For details see the article on p. 787.

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RUNNING IN CIRCLES LOOKING FOR A GREAT TEACHING JOB OR HIRE?

The American Association of Physics Teachers (AAPT) Career Center is the best niche employment site for high school and two- and four-year college science teaching opportunities, with hundreds of jobs viewed by thousands of the finest scientists each month.

<http://careers.aapt.org>

The AAPT Career Center is part of the *Physics Today* Career Network, a niche job board network for the physical sciences and engineering disciplines. Jobs and resumes are shared with four partner job boards – *Physics Today Jobs* and the American Physical Society (APS), AVS: Science and Technology of Materials, Interfaces, and Processing, and IEEE Computer Society Career Centers.

AAPT
PHYSICS EDUCATION

- > Assistant Professor
- > Postdoctoral Researcher
- > Tenure-Track Professor
- > Research Faculty
- > Lecturer
- > Department Chair
- > Laboratory Instructor
- > High School Physics Teacher



On the cover: Eleventh Avenue Walkers/Good Dogs, 2013, by Jacquie Green. Mixed media on panel, 18 inches by 18 inches and 18 inches by 24 inches. Courtesy of the artist, <http://jacquiegreen.com>. See p. 945 for more about Green and her art.

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- 843 Immigration Policy, Practices, and Procedures: The Impact on the Mental Health of Mexican and Central American Youth and Families
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Mexican and Central American individuals bring a diversity of educational and professional skills to the United States, yet encounter the vicissitudes of a difficult sociopolitical climate that can create vulnerabilities, ranging from fear and mistrust to parent-child separations to poverty. Research has begun to investigate the impact of such policies on immigrants' mental health. The authors review this research and offer proposals for favorable policies and actions that may mitigate immigration-related stress.
- 855 Racial/Ethnic Discrimination and Well-Being During Adolescence: A Meta-Analytic Review
Aprile D. Benner, Yijie Wang, Yishan Shen, Alaina E. Boyle, Richelle Polk, and Yen-Pi Cheng
As a key period in which social-cognitive identity processes are worked through, adolescence is a time of keen perceptiveness to discrimination. The harmful nature of discrimination is well-established; however, most previous meta-analyses have involved adults and more global well-being measures. The current fine-grained meta-analysis examined the links between discrimination and specific indices of adolescent health, such as depression, academic motivation, and risky behaviors, across studies involving more than 90,000 adolescents.
- 884 Community-Based Participatory Research (CBPR): Towards Equitable Involvement of Community in Psychology Research
Susan E. Collins, Seema L. Clifasefi, Joey Stanton, The LEAP Advisory Board, Kee J. E. Straits, Eleanor Gil-Kashiwabara, Patricia Rodriguez Espinosa, Andel V. Nicasio, Michele P. Andrasik, Starlyn M. Hawes, Kimberly A. Miller, Lonnie A. Nelson, Victoria E. Orfaly, Bonnie M. Duran, and Nina Wallerstein
Community-based participatory research evolved in reaction to the positivist notion that people can be objectively studied in the laboratory. As individuals embedded in their communities, people belong to larger socially constructed identities. In CBPR, researchers and communities co-construct research questions and interventions in the dual pursuit of knowledge and action. This article introduces CBPR and presents a case study highlighting the capacity for more culturally appropriate research.
- 899 Big Data in Psychology: A Framework for Research Advancement
Idris Adjerid and Ken Kelley
Digital platforms have opened vast potential for research with big data, with the capacity to capture characteristics about thousands of individuals. As psychology scholars have begun to explore these resources, they have encountered both advantages and uncertainties. This article guides psychologists in judiciously working with large-scale data, through enhanced access to open-source data and digital platforms and by matching research goals to different kinds of data.
- 918 The Coelacanth Still Lives: Bringing Selection Back to the Fore in a Science of Behavior
W. David Stahlman and Kenneth J. Leising
Behavior is shaped by virtue of its past consequences in a manner analogous to Darwinian evolution by natural selection, an insight that has been underappreciated. The authors extend the principles of variation and selection to clarify the development of action. They highlight three levels of environmental selection – phylogenetic, ontogenic, and cultural – and suggest that these provide a complete account of behavior.

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ISSN 0972-5636



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NCERT

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Volume 45

Number 3

September 2018

A quarterly nasen journal

British Journal of Special Education

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0360-1315(201810)125:c;1-z

Available online at www.sciencedirect.com

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ISSN 0360-1315
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◀ **COVER.** Fairy ring spot appears on all the above ground parts of carnation that includes leaves, stems, and calyxes. Initially, the spots are purplish, but they later turn brown and coalesce, leading to drying of the entire plant. Centre of the spot is covered with dark brown, powdery spores. This disease drastically reduces the aesthetic value of the crop. See page 1519.

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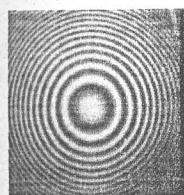
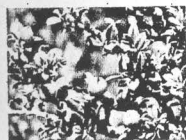
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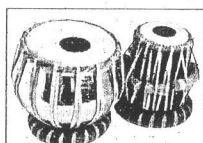
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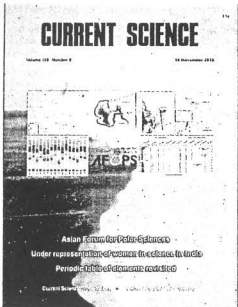


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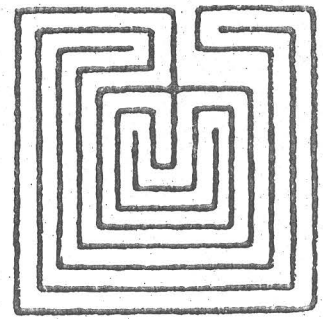
The Editor thanks Dr Rahul Mohan, National Centre for Polar and Ocean Research (formerly National Centre for Antarctic and Ocean Research), Headland Sada, Vasco-da-Gama 403 804, Goa, India and Dr Clemente Michael Wong Vui Ling, Biotechnology Research Institute, Universiti Malaysia Sabah, 88400 Kota Kinabalu, Sabah, Malaysia for agreeing to be Guest Editors for special section.

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Dædalus

Journal of the American Academy of Arts & Sciences

(24)



Science & the Legal System”

Volume 147, Number 4; Fall 2018

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2018
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संस्कृत प्रभाग
संस्कृत और प्रलेखन प्रभाग
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The front cover: When scientists appear in court today, they are not being
persecuted for their scientific views, but what science tells them may be
wrong, or, worse, faulty analyses may prove more convincing than sound
science. The challenge of getting courts to recognize and accept sound sci-
ence still with us. (Top) Joseph-Nicolas Robert-Fleury, *Galileo before the Holy
Office*, 1847, Paris, Musée du Luxembourg. (Bottom) DNA sequencing gel
image by Larry Mulvehill; witness testimony © 2018 by Hero Images Inc.

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- 22 The status of the Health Management Information System in Bihar is presented and the reasons affecting the quality of data at different levels, from the health sub-centre to the state level, are examined. — *Rajeev Kamal Kumar*

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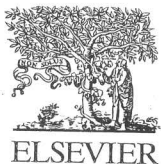
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0272-7757(201804)63:C;1-K

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0272-7757(201808)65:C;1-6

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65 1-152 (2018).



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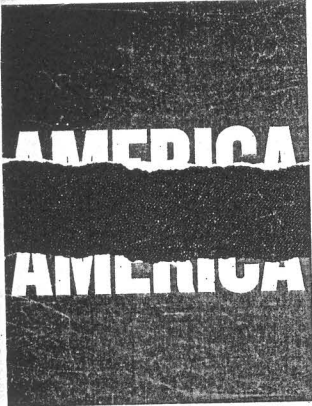
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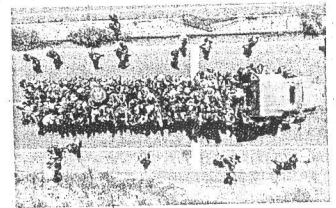
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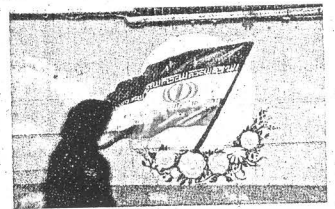
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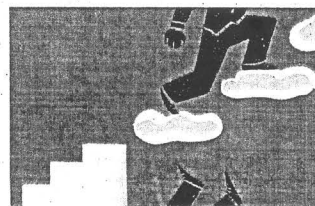
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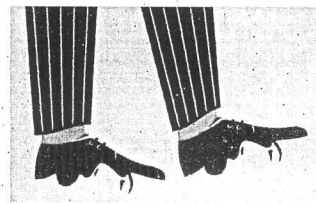
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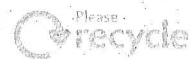
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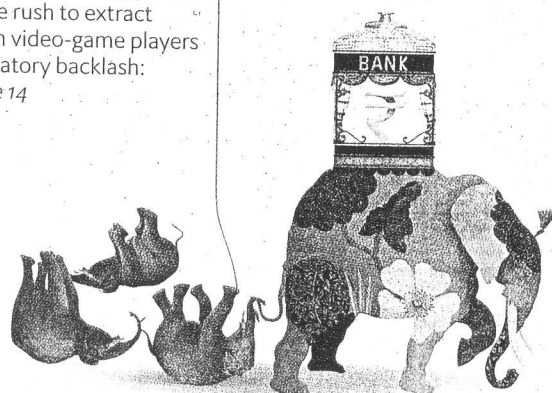
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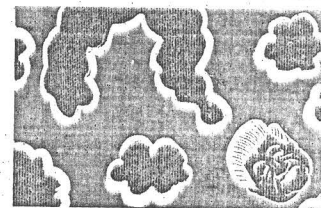


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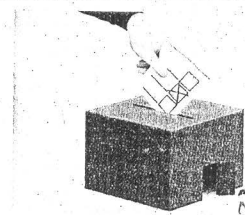


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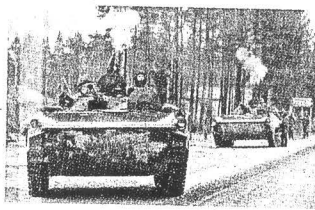
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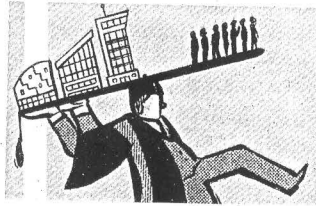
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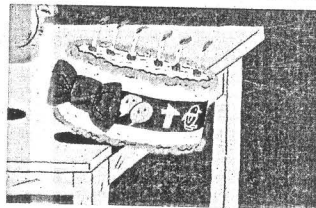
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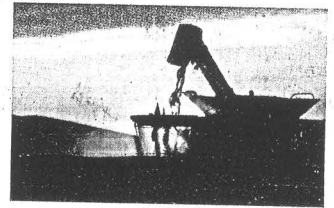
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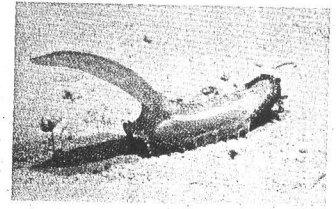
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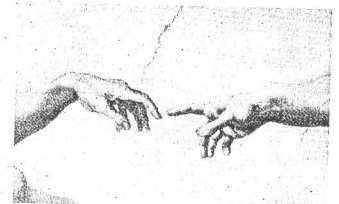
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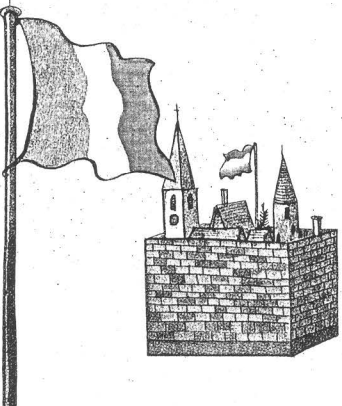
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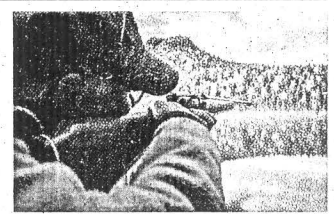
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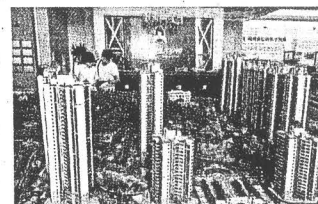
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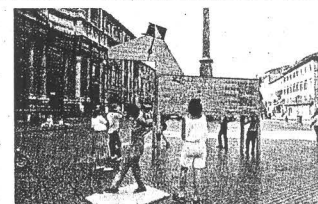
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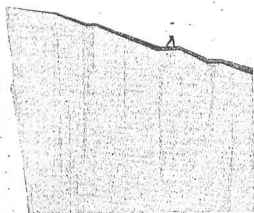
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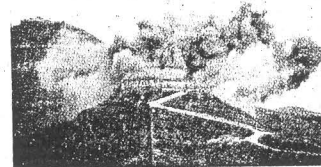
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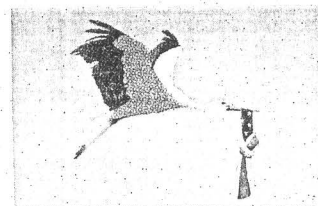
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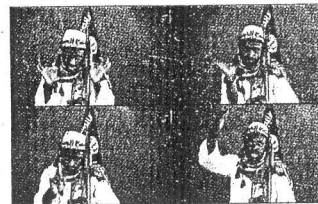
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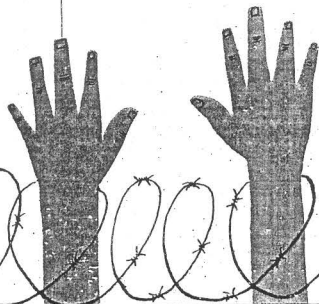


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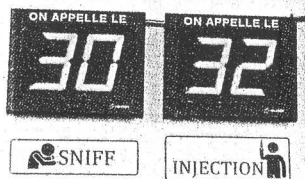


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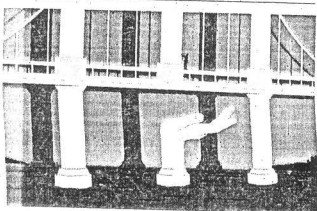
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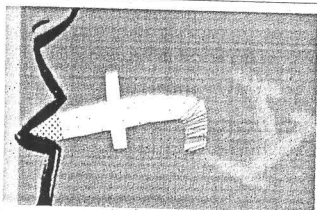
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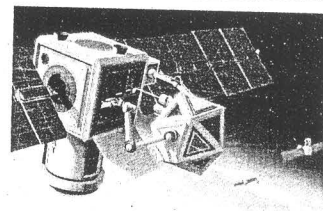
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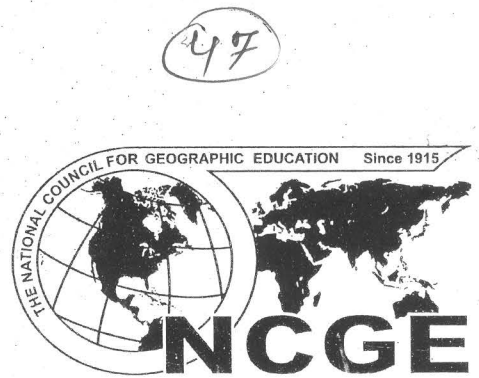
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A Peer-Reviewed Quarterly Journal

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No. 307: September/October 2018
Vol. LXII No. 5

Editorial Office:
Sahitya Akademi, Rabindra Bhavan,
35, Ferozeshah Road, New Delhi-110001.

**All original, unpublished submissions
should be sent to
indianlit@sahitya-akademi.gov.in**

Cover Paintings: Annavaram Srinivas

In India inclusive of mailing: single copy, one hundred rupees; one year (six issues) five hundred rupees; three years (eighteen issues) one thousand three hundred rupees. *Abroad by airmail:* single copy, fifteen US dollars; one year (six issues) seventy five US dollars; three years (eighteen issues) two hundred US dollars. *Abroad by seamount:* single copy, six US dollars; one year (six issues) thirty two US dollars; three years (eighteen issues) ninety US dollars.

Send your subscription to Sahitya Akademi, Sales Section, 'Swati,' Mandir Marg, New Delhi 110001. Ph: 011-23745297, 23364204 • 4 D L Khan Road, (Near SSKM Hospital), Kolkata 700025 • Central College Campus, Dr. B.R. Ambedkar Veedhi, Bengaluru 560001 • 172, Mumbai Marathi Granth Sangrahalaya Marg, Dadar, Mumbai 400014 • Main Building, Guna Buildings (Second Floor), 443 (304), Anna Salai, Teynampet, Chennai 600183.

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Published by K. Sreenivasarao, Secretary, Sahitya Akademi, Rabindra Bhavan, 35, Ferozeshah Road, New Delhi-110001, India and printed by him at Wellwish Printers, P/P-5 Maurya Enclave, Delhi-110034.



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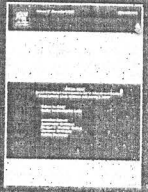
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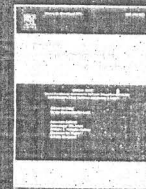




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669 Practice Recommendations for Addressing Racism: A Content Analysis of the Counseling Psychology Literature
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 For people of color in the United States, racism is ubiquitous and insidious. Unfortunately, mental health professionals lack systematic guidance in addressing racism through practice. This study—the first of its kind—summarizes and evaluates practice recommendations for addressing racism in the peer reviewed counseling psychology literature and provides mental health professionals with strategies for addressing individual, group, and systemic racism.

681 Within-Person Relationship Between Career Goal Feedback and Career-Related Stress: A Weekly Survey Study
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690 Illustrating Novel Techniques for Analyzing Single-Case Experiments: Effects of Pre-Session Mindfulness Practice
Marianne Stone, Myrna L. Friedlander, and Mariola Moeyaert
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703 Moderators of Congruent Alliance Between Therapists and Clients: A Realistic Accuracy Model
Roei Chen, Eshkol Rafaeli, Eran Bar-Kalifa, Eva Gilboa-Schechtman, Wolfgang Lutz, and Dana Atzil-Slonim
 Therapists appear to be more congruent with their clients in their assessment of the bond component of alliance, as opposed to their assessment of the therapy's goals or tasks. These findings highlight the need for greater communication regarding goals and tasks. In addition, the finding that therapists' affiliative tendencies are related to their ability to be congruent with their clients' alliance perceptions points to the importance of attending to therapists' personalities and their influence on therapy processes.

715 Development of the Self-Forgiveness Dual-Process Scale
Brandon J. Griffin, Everett L. Worthington Jr., Don E. Davis, Joshua N. Hook, and Shira Maguen
 This article suggests that forgiving oneself following perceived transgression requires two processes: reorientation toward positive values and restoration of personal esteem. Each process is necessary for self-forgiveness to occur and helps explain how self-forgiveness might contribute to better physical and mental health, more responsible behavior toward others, and possible repair of ruptured relationships.

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 Guangrong Jiang, Caizhi Wu, and Alyssa L. Clements

Previous studies about the effects of client feedback, an intervention designed to identify clients not responding to psychotherapy to enable psychotherapists to restore treatment to a positive trajectory, have only been conducted in the United States or Europe. This study is the first to demonstrate the effects of improved outcomes and efficiency associated with a client feedback intervention in a Chinese setting.

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About the Artist: Andrew Dunn was diagnosed with dyslexia when he was nine years old, and he has attended the Luke Waites Center for Dyslexia at Texas Scottish Rite Hospital for Children for the last year and a half. Andrew is creative but would sometimes get frustrated when his art would not turn out the way he wanted it to. His dad and mom kept encouraging him to persevere, and one day, watching Bob Ross on Netflix, Andrew completed his first oil painting. He named it "Icebound Lands" because it reminded him of a land in a book he was reading at the time. For Andrew, reading and art both show that he can overcome difficulties. He is not afraid to try something new, because he has learned he may discover something new about himself!

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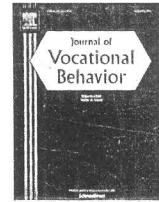
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Abstracted/indexed in AGRICOLA; Current Contents/Social & Behavioral Sciences, PsycINFO, Psychological Abstracts, PsycSCAN Research Alert, Social Sciences Citation Index. Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®.



0001-8791(201810)108:C;1-6

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Abstracted/Indexed in: Communication Abstracts; Educational Management Abstracts; Educational Research Abstracts Online; Education Research Index; ERIC; Language Teaching; Linguistics Abstracts Online; LLBA; MLA International Bibliography; Multicultural Education Abstracts; PsycINFO; Uncover. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

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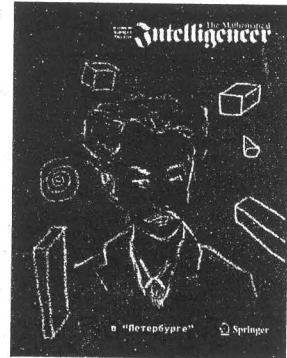
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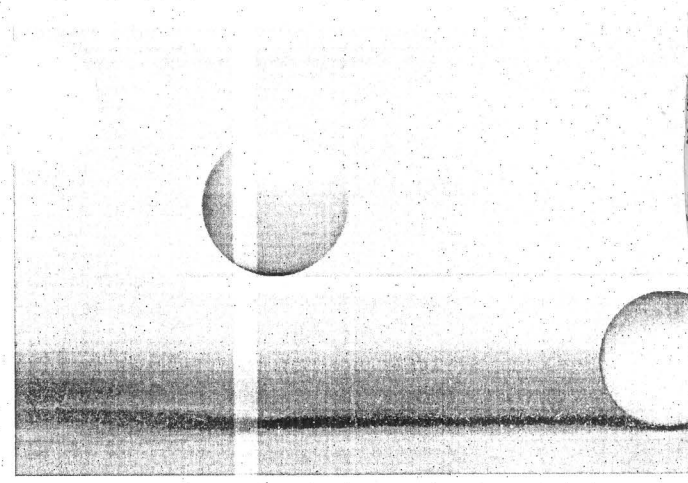
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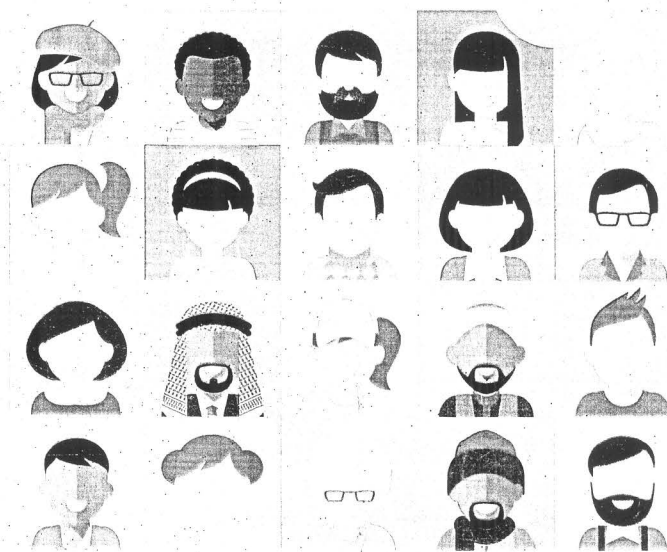
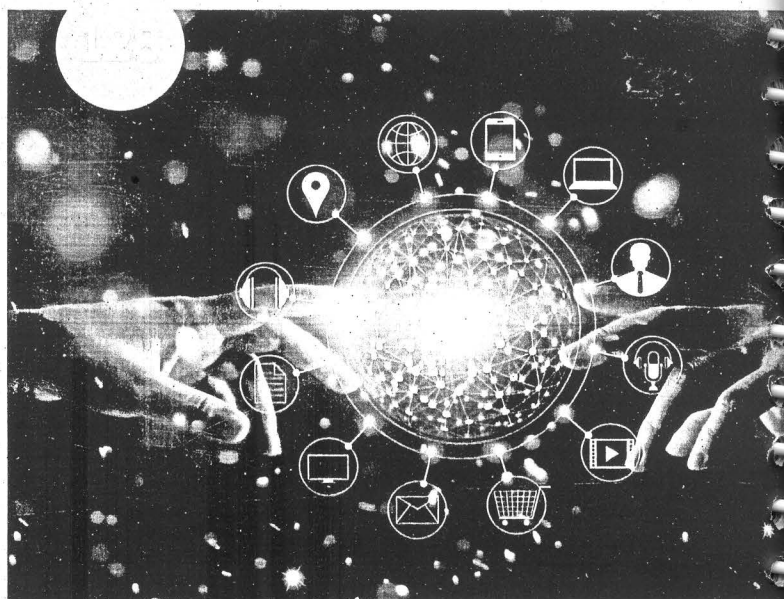
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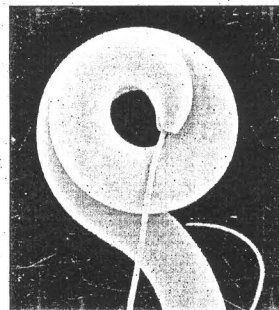
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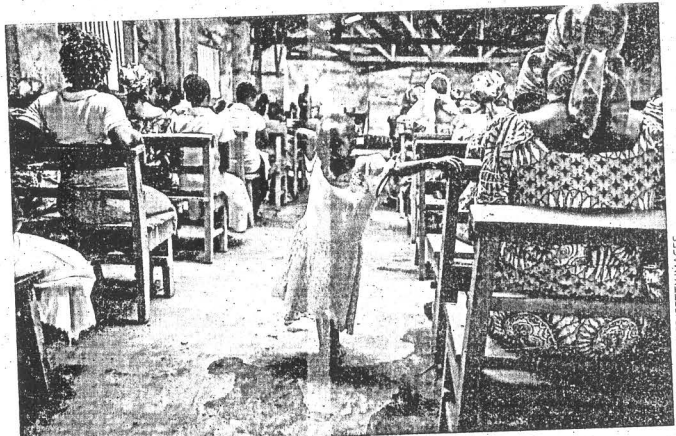
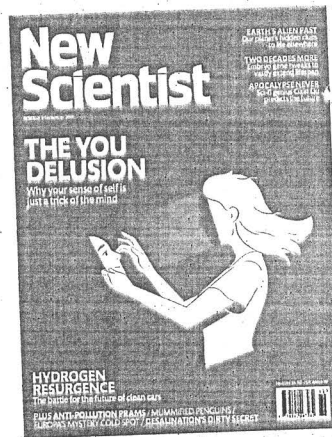
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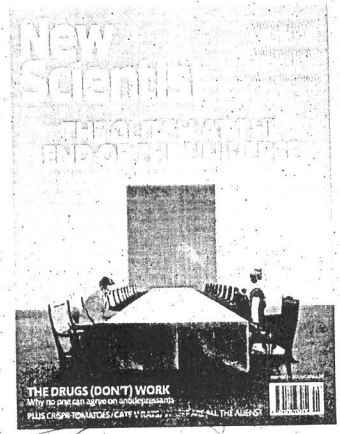
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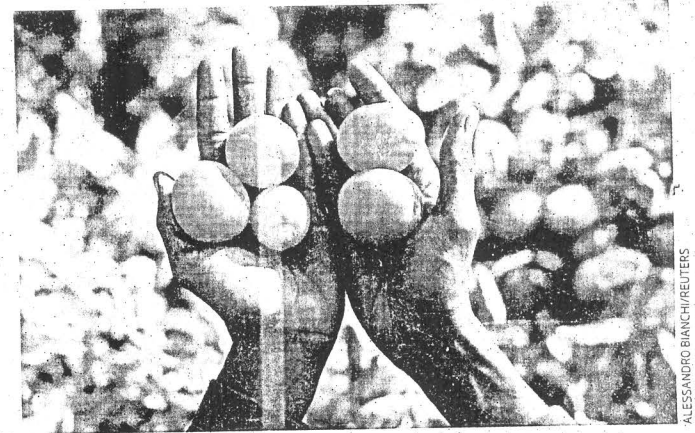
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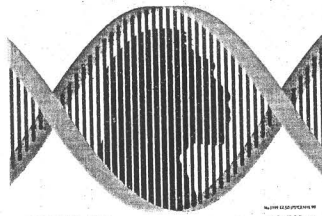
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GHOSTS IN OUR DNA

Hidden inside you: the ancient humans no one knew existed



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PLUS: EXASCALE COMPUTERS. CREEPY PHONE FINGER. T-REX BRAIN

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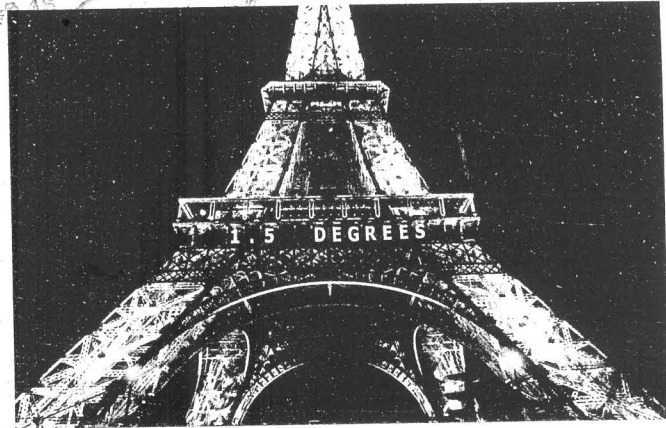
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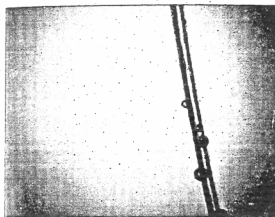
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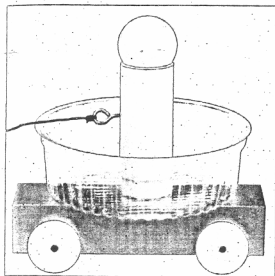
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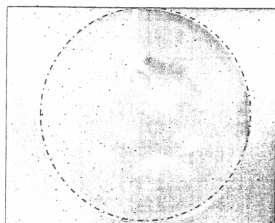
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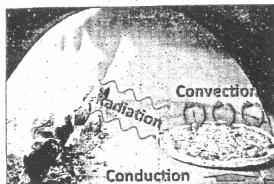
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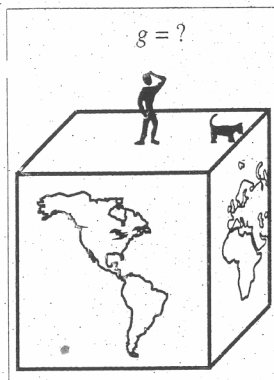
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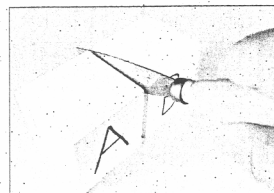
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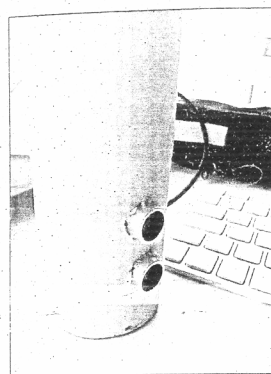


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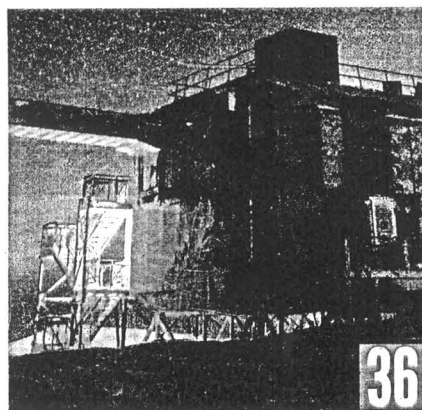


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ON THE COVER: Harlem Renaissance painter Aaron Douglas (1899–1979) was a professor of art at Fisk University, a historically black university in Nashville, Tennessee. This painting, *Science*, is one panel in a mural that Douglas painted in Fisk's Cravath Hall. On page 28, Ronald Mickens writes about the life and career of another Fisk professor: physicist Elmer Samuel Imes (1883–1941), the second black man to receive a physics PhD in the US. Imes made major contributions to spectroscopy and was intimately involved with the intellectual circles of the Harlem Renaissance. (Photograph by Sydnei Patton.)

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▶ Nobels 2018

Visit physicstoday.org to learn about the new Nobel laureates in the physical sciences; the physics prize will be awarded on 2 October. You can also explore physics Nobel history, including a database of nominees from 1901 to 1966 and a map charting where each laureate has lived and worked.

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UCIA

▶ Tom Lehrer

Before gaining fame as a satirical singer-songwriter, Tom Lehrer was a math graduate student at Harvard. In 1951 he stitched together songs he had written about science, math, and college life to create a musical, *The Physical Revue*. Lehrer spoke to PHYSICS TODAY about writing and performing the musical.

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▶ Teenage scientists

The documentary *Inventing Tomorrow* follows science-fair competitors trying to save their communities from environmental damage. PHYSICS TODAY's Melinda Baldwin reviewed the film and interviewed director Laura Nix, who has set up a global educational campaign for mentoring young scientists.

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PHYSICS TODAY (ISSN 0031-9228, coden PHTOAD) volume 71, number 10. Published monthly by the American Institute of Physics, 1305 Walt Whitman Rd, Suite 300, Melville, NY 11747-4300. Periodicals postage paid at Huntington Station, NY, and at additional mailing offices. POSTMASTER: Send address changes to PHYSICS TODAY, American Institute of Physics, 1305 Walt Whitman Rd, Suite 300, Melville, NY 11747-4300. Views expressed in PHYSICS TODAY and on its website are those of the authors and not necessarily those of AIP or any of its member societies.



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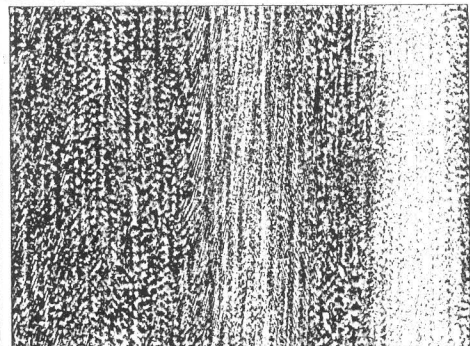
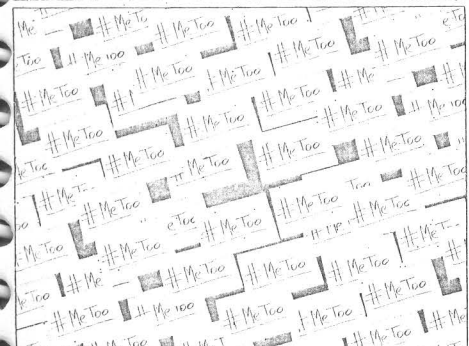
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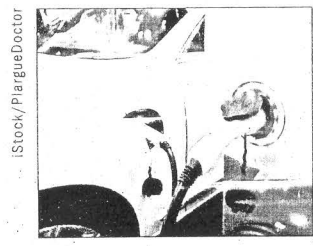
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Physics World is published monthly as 12 issues per annual volume by IOP Publishing Ltd, Temple Circus, Temple Way, Bristol BS1 6HG, UK

United States Postal Identification Statement
Physics World (ISSN 0953-8585) is published monthly by IOP Publishing Ltd and distributed in the USA by UKP Worldwide, 3390 Rand Road, South Plainfield, NJ 07080. Periodicals postage paid at Rahway, NJ and at additional mailing offices. US Postmaster: send address changes to *Physics World*, IOP Publishing, C/O 3390 Rand Road, South Plainfield, NJ 07080.



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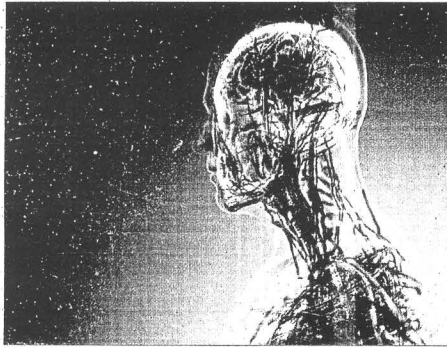
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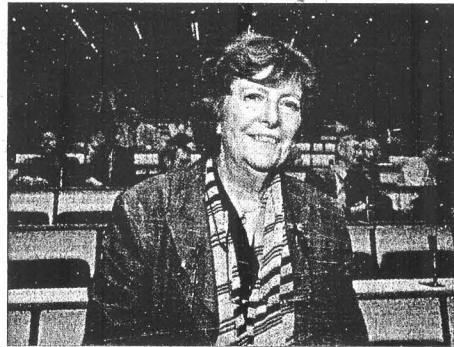
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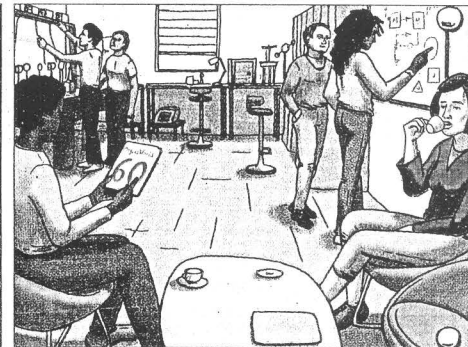
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Physics World is published monthly as 12 issues per annual volume by IOP Publishing Ltd, Temple Circus, Temple Way, Bristol BS1 6HG, UK

United States Postal Identification Statement
Physics World (ISSN 0953-8585) is published monthly by IOP Publishing Ltd and distributed in the USA by UKP Worldwide, 3390 Rand Road, South Plainfield, NJ 07080. Periodicals postage paid at Rahway, NJ and at additional mailing offices. US Postmaster: send address changes to *Physics World*, IOP Publishing, C/O 3390 Rand Road, South Plainfield, NJ 07080.

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School Science (NCERT)

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Journal will
in any form

ISSN 0036-679X (print)

0972-5061 (online)

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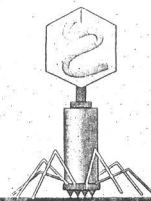
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Neurons of the brain find their places during development guided by internal programs and external interactions. This confocal microscopy image from a *Drosophila*

larva shows the characteristic placement of neurons in the optic lobe. The neurons are organized in layers according to their birth order, with the color of each layer corresponding to its neurons' unique expression of transcription factors, as detected by immunofluorescence. This special issue highlights the behind-the-scenes forces and constraints that guide brain development. See page 170. *Image: Isabel Holguera, Claude Desplan laboratory*

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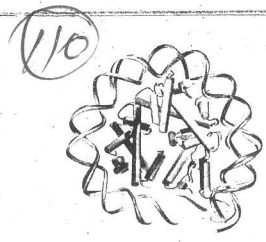
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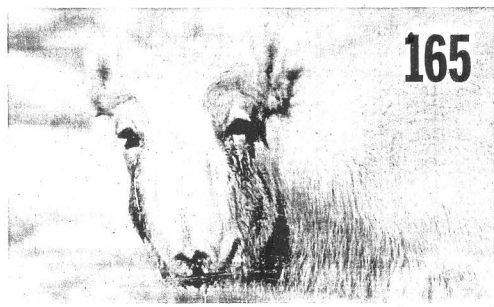
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SCIENCE (ISSN 0036-8075) is published weekly on Friday, except last week in December, by the American Association for the Advancement of Science, 1200 New York Avenue, NW, Washington, DC 20005. Periodicals postage (publication No. 484460) paid at Washington, DC, and additional mailing offices. Copyright © 2018 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership, including subscription (12 months): \$165 (\$74 allocated to subscription). Domestic institutional subscription (51 issues): \$1808; Foreign postage extra: Mexico, Caribbean (surface mail) \$55; other countries (air assist delivery): \$89. First class, airmail, student, and emeritus rates on request. Canadian rates with GST available upon request. GST #125488122. Publications Mail Agreement Number 1069624. Printed in the U.S.A. Change of address: Allow 4 weeks, giving old and new addresses and 8-digit account number. Postmaster: Send change of address to AAAS, P.O. Box 96178, Washington, DC 20090-6178. Single-copy sales: \$15 each plus shipping and handling; bulk rate on request. Authorization to reproduce material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by AAAS to libraries and others who use Copyright Clearance Center (CCC) Pay-Per-Use services provided that \$35.00 per article is paid directly to CCC, 222 Rosewood Drive, Danvers, MA 01923. The identification code for Science is 0036-8075. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.

GRAPHIC: O. WILLHOFT ET AL.; (PHOTO) WILDLIFE CONSERVATION SOCIETY (WCS), MONGOLIA

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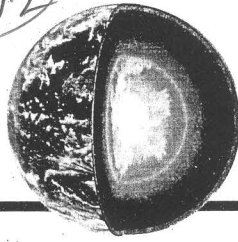
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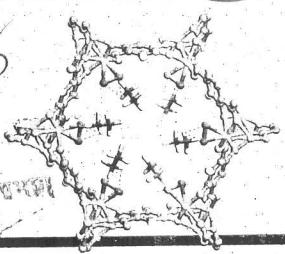
Between 1 and 2% of people in the United States are allergic to peanuts. A new treatment strategy exposes affected children to peanuts or peanut proteins in hopes of desensitizing their immune system. This approach has gained popularity as doctors in private practice offer it and two commercial products are nearing potential approval. But it also comes with risks and uncertainties. See page 278. Photo: Myppurgatoryyears/iStock.com

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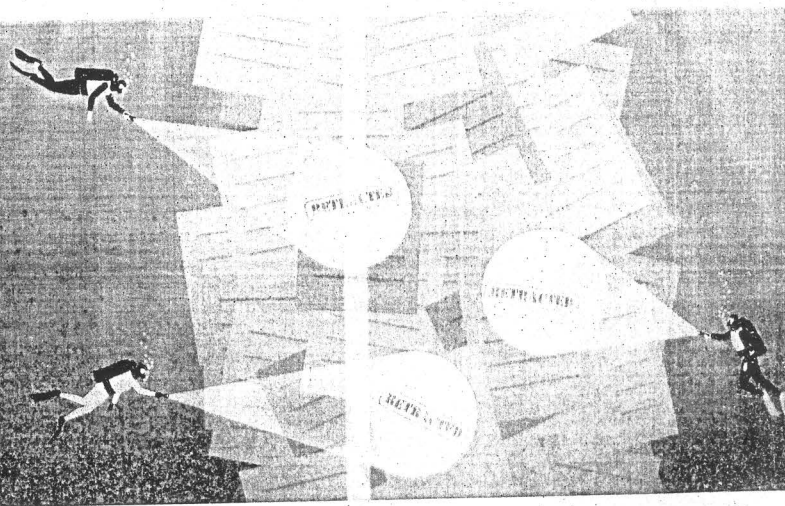
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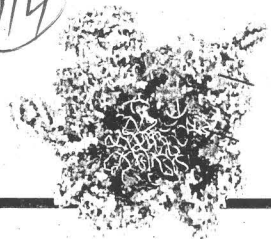
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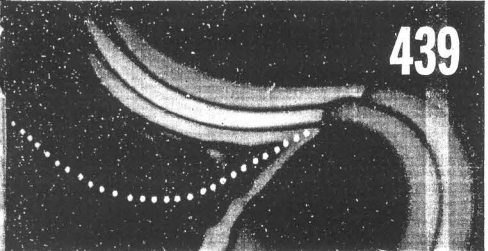


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Artist's rendering of chromatin (coiled structures) and DNA regulatory elements (yellow clusters) inside a cell's nucleus. The Cancer Genome Atlas (TCGA) Analysis Network profiled the

complex accessible chromatin landscape in 410 cancer samples from 23 cancer types, substantially expanding the catalog of known DNA regulatory elements in cancer genomes and shedding light on how genetic mutations and epigenetic regulators work together to promote tumor development. See pages 401 and 420. *Image: V. Altounian/Science*

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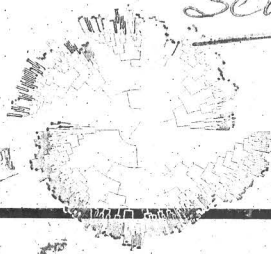
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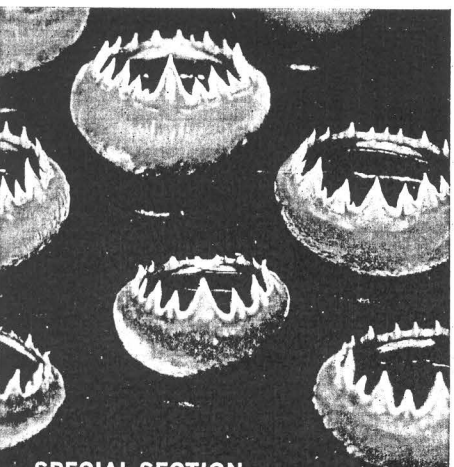
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This whimsical photo of a coconut turned into a car represents the increasing use of natural materials in commercial composites, particularly in the automotive sector. Coconut fibers (coir) and powdered

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Photo: Cary and Babs Wolinsky

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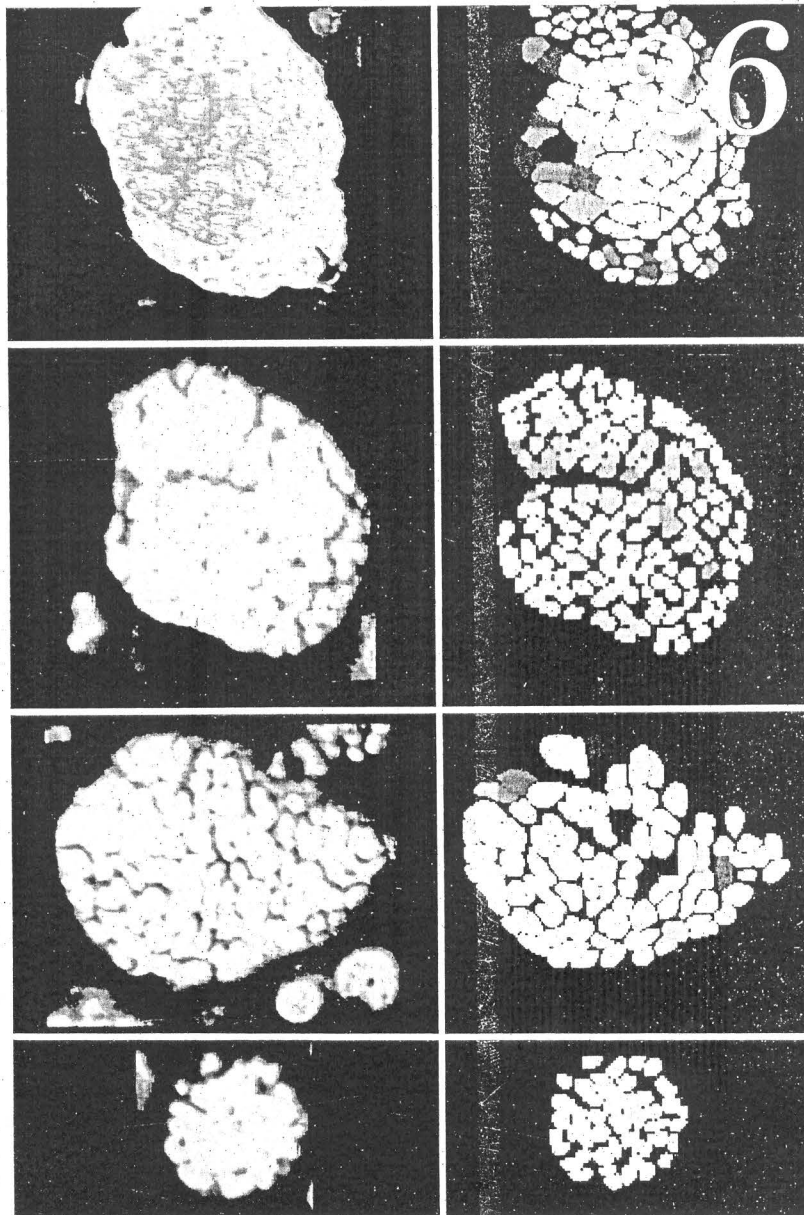
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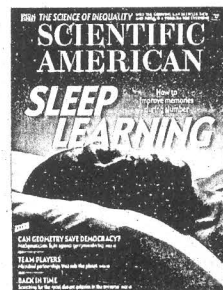
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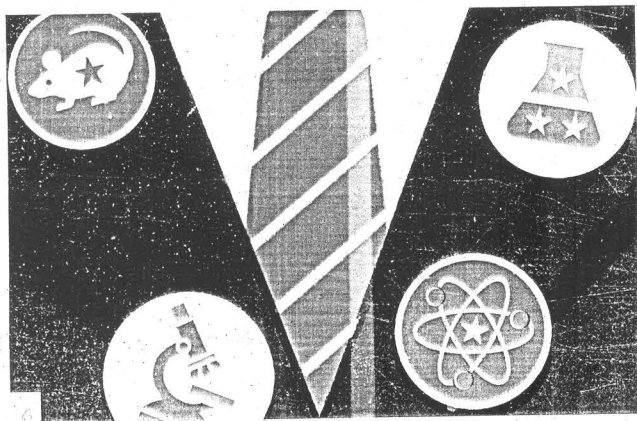


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Learning while asleep turns up as a trope in novels and in popular culture. Now one form of sleep learning is getting a serious hearing in reputable neuroscience labs. The sleeping brain spontaneously reactivates existing memories. Researchers want to understand how these periods of off-line recall serve as de facto study sessions that help us remember what we learned during the day. Photograph by Hannah Whitaker.



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Scientific American (ISSN 0036-8733), Volume 318, Number 5, November 2018, published monthly by Scientific American, a division of Springer Nature America, Inc., 1 New York Plaza, Suite 4500, New York, N.Y. 10004-1562. Periodicals postage paid at New York, N.Y., and at additional mailing offices. Canada Post International Publications Mail (Canadian Distribution) Sales Agreement No. 40012504. Canadian BN No. 127387652RT; TVQ1218059275 TQ0001. Publication Mail Agreement #40012504. Return undeliverable mail to Scientific American, P.O. Box 819, Stn Main, Markham, ON L3P 8A2. Individual Subscription rates: 1 year \$49.99 (USD), Canada \$59.99 (USD), International \$69.99 (USD). Institutional Subscription rates: Schools and Public Libraries: 1 year \$84 (USD), Canada \$89 (USD), International \$96 (USD). Businesses and Colleges/Universities: 1 year \$399 (USD), Canada \$405 (USD), International \$411 (USD). Postmaster: Send address changes to Scientific American, Box 3187, Harlan, Iowa 51537. Reprints available: (212) 451-8415. To request single copies or back issues, call (800) 333-1199. Subscription inquiries: U.S. and Canada (800) 333-1199; other (515) 248-7684. Send e-mail to scacustserv@cdsfulfillment.com. Printed in U.S.A. Copyright © 2018 by Scientific American, a division of Springer Nature America, Inc. All rights reserved.

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a symposium on

whether the solution

is the problem

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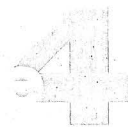
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No. 3

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Vol. 56 October 29-
No. 44 November 04, 2018
Price Rs. 25.00

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Published by the Association of Indian
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Why Course Work is Mandatory for M Phil and PhD Programmes

S Srikanta Swamy*

Quality is the global concern where in every Higher Educational Institution has its role to play. In the educational scenario, quality is related to total quality management in which emphasis is on teaching, learning, extension/community activities and research. It is the quality of teaching that leads to the quality of research. In-depth knowledge and clarity in the area of research helps the researcher to design the research in a better way. Quality of research cannot emerge from higher educational institutions all of a sudden, unless there is a Research Culture. Developing the research culture involves many factors such as curriculum transaction, freedom for learners, exposing the learners to research during their graduation level, encouraging good library work and exposing them to the research journals, staff members capability to give the research inputs during their curricular transaction, research based assignments, seminars and project work, incentives for research based articles, making the research work visible to the outsiders through websites and so on. This should be done with all commitment and vigour, constantly and consistently so that developing the research culture can be initiated.

Many academicians who have visited foreign universities, compare the Indian researches and conclude that, they are substandard. This remark may be true to some extent with respect to researches in social science and humanities due to the nature of these disciplines. As far as researches in science are considered, in most of the cases they are very close to the standard of researches abroad. This may be due to the universal nature of science and also the publication of articles in refereed journals.

Poor quality of researches may be attributed to many factors like, selecting the less competent students, conducting the course work very casually, resistance from the M Phil and PhD scholars towards making course work mandatory, poor rapport between the scholar and the research supervisor, not adhering to the time line of the research process, liberal attitude of the research advisory council/ doctoral committee and violation of the UGC norms. The scholars quarterly or half yearly reports submitted for the review committee, the contact sessions between the research scholars and the research supervisors, intensive library work done by the scholars, number of articles published will also count to check the quality and consistent research progress.

The University Grants Commission has given clear guidelines under minimum standards and procedure for award of M Phil and PhD degree, and also freedom for higher educational institutions to use their discretion with respect to admission procedures and the conduct of Course Work without compromising the quality.

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Education: Key to Master the 4th Industrial Revolution

Bhagwati Prakash* and Jaya Sharma**

The Fourth Industrial Revolution (4IR), characterized by the fusion of technologies blurring lines inter se the physical, digital, and biological spheres and collectively referred to as cyber-physical system¹ has been fast embracing the world. This new industrial revolution can offer an opportunity to leapfrog rapid development and growth in the ensuing decades, if our education system would endeavor to master the capabilities needed to adapt this technology shift in the offing. It may also pose an equally formidable challenge, if our education system would fail to tide over this massive, irreversible and long-term disruption cycle of the 4IR. Indeed, this new industrial revolution is unfolding multiple challenges of breakthroughs in technology including robotics, artificial intelligence, data science, business informatics, nano-technology, quantum computing, biotechnology, the Internet of Things (IOT), the Industrial Internet of Things (IIoT), fifth-generation wireless technologies (5G), precision drones, additive manufacturing/ 3D printing and fully autonomous vehicles to necessitate a complete overhaul of our education. According to Klaus Schwab, the Executive Chairman of the World Economic Forum, these emergent technologies are likely to disrupt almost every industry in every country. The breadth and depth of these changes herald the transformation of entire system of production, management, and governance². Moreover, recently "an Oxford study has estimated that 47% of the jobs in the US, 69% of the jobs in India and 77% of the jobs in China will not exist in 25 years. This is not mere conjecture. China's factories are adding robots faster than they are hiring people. India's information technology sector is already witnessing jobless growth and total employment may have already peaked."³

We are already on the threshold of this all pervasive revolution comprising huge advances in genomics, artificial intelligence, material and manufacturing technologies, wherein machines are closing in on human ability, robots are replacing humans in industries and in home too, reusable rockets can make space travel and colonies in space a reality and gene editing can facilitate to create favourable traits and new life forms. All of these are bound to outdate our curricula, research and skilling programmes. Only those countries would thrive with prosperity in the 20s, whose education and research systems would cope up and master this paradigm shift.

Our current education system in India has yet to gear up to cope with all such disruptive changes. India has earlier as well, suffered industrialization in the post-globalization era in the past quarter cent

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UNIVERSITY NEWS

Vol. 56 November 12-18
No. 46 2018
Price Rs. 25.00

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Published by the Association of Indian
Universities

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A Small Step for a Giant Leap

Hema Raghavan*

Four years and four months ago a new government was elected, promising mandate in the form of jobs for the unemployed youth, of crediting to the account of every citizen a sum of 15 lakhs of rupees by confiscating black money and achche din(good days) for the entire nation under an honest corruption free government with a slogan "minimum government, maximum governance", offering absolute safety and security from internal and external foes (especially from our Western neighbours). There was also considerable mockery and criticism of the way the previous government handled farmers' problems, unclean environment, fuel price rise and rupee depreciation against dollar with the tag line that we will reverse all these and many more of their wrong doings as well as their non- doings, aptly described as "policy paralysis". The party's promises also included better educational standards and quality healthcare. Only fools with walls in their minds would have blocked the rise of the Bhartiya Janata Party (BJP) to high offices with such wholesome promises of greener pastures. India proved she had fewer fools by voting BJP to power almost en bloc with added support from its alliance partners.

With just a few months to go before the party in power seeks once again a fresh mandate, it has already planned for the final sprint with a renewal of promises on educational and health projects as a carryover from the partially fulfilled agenda of 2014. I am not interested in fault finding for promises not fulfilled or waxing eloquent over achievements that are more in the form of doing the same things as done in the past, maybe in a different and possibly better way (such as the extension of Aadhar towards social welfare projects and implementation of GST, to name a few). That is how political parties when they come to power work since they have the power to do what they want to do and the power not to do what they cannot do in a short span of five years.

Having been only in the academic profession all through my working years, my concern centres round the Prime Minister's (PM's) promise of greater funding for higher education which is perceptibly on the decline affecting a large number of young men and women whose future is dependent on what they receive in schools, colleges and universities. This is of cardinal importance to the future of any nation, for what tomorrow's leaders receive today, is what they will give in the years to come. The Prime Minister has promised during his centenary address at Patna university a bonanza of Rs.10,000 crores for five years(it is not clear if it is 10,000 crores each year or cumulatively for five years) and autonomy to 10 private and public universities if they show the potential to become world class institutions. Implied in this promise is the hidden truth that our universities have till now been denied adequate funding and autonomy which are essential to reach excellence. The PM's announcement is a small and a significant step towards reforming higher education.

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Ten Reasons Why Journal Editors Reject Research Papers

A Joseph Dorairaj*

As a researcher and academician you would have received rejection slips from editors of various journals. And there is no hiding the fact that these rejection slips would have caused you considerable heartburn. While the number of rejection slips would have been quite high when you were a novice, both as a researcher and academician, the number would have come down drastically as you scaled the academic ladder. But still there is no guarantee that you will not receive any rejection slip at all, especially from journals with an enviable track record in terms of impact factor.

Why do journal editors reject research papers? Do they derive crude and vicarious pleasure in rejecting papers submitted by their academic peers? Do they follow established norms and guidelines while rejecting papers written and submitted with a lot of hard work and expectations or do they go by their whims while returning papers? Put differently, on what scientific basis do editors scrutinize submissions and subsequently reject most of them?

As the founder-editor of Gandhigram Literary Review, a peer reviewed journal, and as the member of different editorial boards, both national and international, I would like to discuss ten reasons why editors reject papers in Humanities and Social Sciences and these reasons would apply, mutatis mutandis, to pure sciences as well. From another point of view, it could be argued that if researchers and academicians were to pay attention to these ten issues, the chances of their papers being accepted by editors are quite bright.

The key issue in any research is originality. Unfortunately, quite a few researchers and academicians, either knowingly or unknowingly, try to re-invent the wheel. What editors look for in any submission is originality. In other words, they want to ascertain if the paper that has been submitted makes any contribution, however modest it may be, to that particular domain of knowledge. If it does not, they are not inclined to give it a second look. Editors are saddled with a heavy backlog and therefore, if a paper does not catch their attention immediately because of its sheer originality, it is most likely consigned to the recycle bin.

Many researchers do not undertake a proper literature survey and as a result are not aware of the quantum of research that has been already carried out in their field, and ultimately end up repeating or rehashing what has already been done. This can be addressed by undertaking proper and extensive literature survey which will help you locate or identify the gaps in that field of research that need to be addressed. No editor will risk publishing either in toto or in part what has already been published and circulated. It has to be borne in mind that "familiarity with the literature

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ZDM Mathematics Education

formerly Zentralblatt für Didaktik der Mathematik

Volume 50 · Issue 6 · November 2018

Research frameworks for the study of language in mathematics education

Guest Editors: Núria Planas · Marcus Schütte

SURVEY PAPER

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