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अनौपचारिका, वर्ष 46 अंक 5-6, मई- जून, 2020

समानो मन्त्र: समिति: समानी समानं मन: सहचित्तमेषाम्।
समानं मन्त्रमभिमन्त्रये व: समानेन वो हविषा जुहोमि।।
समानी व आकूति: समाना हृदयानि व:।
समानमस्तु वो मनो यथा व: सुसहासति।।

ऋग्वेद

अनौपचारिका

समकालीन शिक्षा-चिन्तन की पत्रिका

वर्ष : ४६ अंक : ५-६ • वैशाख-ज्येष्ठ-आषाढ़ वि.सं.२०७६ • मई-जून, २०२० (संयुक्तांक)

क्रम

पाठक क्षमा करें

अनौपचारिका का मई-जून, २०२० (संयुक्तांक) कोरोना काल की विवशता के कारण विलम्ब से प्रकाशित हो रहा है। पाठक इस देरी के लिए क्षमा करें। ☐ सं.

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Current Science, Vol. 119 No. 2, 25 July 2020

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CURRENT SCIENCE

Volume 119 Number 2

25 July 2020

◀ COVER. Natural archives and proxies of past climate variability. See special section.

The editor thanks Dr Manish Tiwari (National Centre for Polar and Ocean Research, Goa, India) and Dr Arun Deo Singh (Centre of Advanced Study in Geology, Varanasi, India) for agreeing to be Guest Editors for special section.

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Volume 119 Number 3 10 August 2020

◄ COVER. Plant of *M. camptosperma*. Inset: Flat fruits. See page 433.

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EDUTRACKS
May, 2020 Vol. 19 No. 9

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July 2020 Vol. 19 No. 11

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JOURNAL OF CHEMICAL EDUCATION

APRIL 2020
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ON THE COVER: Environmental forensic chemistry investigations examine the extent, duration, and sources of environmental contamination. In "An Environmental Forensic Chemistry Experiment Involving Abandoned Mine Drainage Remediation" (DOI: 10.1021/acs.jchemed.9b00765), Pamela J. Higgins discusses an experimental case study in which students determine the potential source of groundwater contamination along a series of treatment steps designed to mitigate the environmental effects of material transport from an abandoned mine drainage site. This experiment expands the breadth of experience for forensic chemistry students outside of more typical investigations of crime scenes and evidence and increases student exposure to chemical techniques not typically conducted in undergraduate forensic chemistry courses. (Acid mine drainage image used with permission from Nathaniel R. Warner.)

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MAY 2020
VOLUME 97 ISSUE 5

ON THE COVER: Aperiodicity in crystals is not an intuitive concept, so its experimental visualization can be helpful for students to build understanding of the symmetry properties of an aperiodic crystal structure. In "Quasiperiodic Crystals: Teaching Aperiodicity of a Crystal Lattice with 3D-Printed Penrose Tiles" (DOI: 10.1021/acs.jchemed.9b00701), Sergio Rossi, Claudia Rossi, and Nicoletta Accorgi describe an activity in which students assemble a continuous-fill (quasi)crystalline pattern with the support of 3D-printed Penrose tiles. Working together, students first use the kite and dart tiles to generate a periodic 2D-crystal pattern, followed by the construction of an aperiodic 2D-crystal pattern. This visual, tangible, and hands-on process allows students to grasp abstract concepts related to symmetry operations and elements of symmetry.

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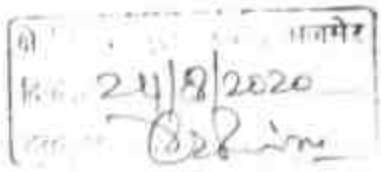

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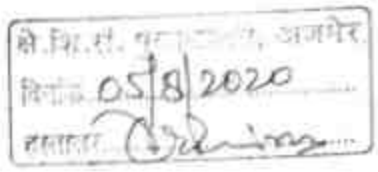

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Mission Statement: The National Council of Teachers of Mathematics supports and advocates for the highest-quality mathematics teaching and learning for each and every student.

Mathematics Teacher: Learning and Teaching PK–12 is devoted to supporting the enhancement and improvement of mathematics teaching and learning for each and every learner both inside and outside of the classroom.

Mathematics Teacher: Learning and Teaching PK–12 solicits submissions from mathematics teachers, university mathematicians, and mathematics educators and strongly encourages manuscripts in which ideas relate to classroom practice. Manuscripts previously published in other journals or books are not acceptable. NCTM publications present a variety of viewpoints.

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Professional Development, Vol. 46 No.2 April 2020

Professional Development in Education
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Cartoon (1830) lithographed by Henry De La Beche showing a Professor Ichthyosaurus lecturing on a human skull to a group of Jurassic reptiles. The cartoon was made as a critique of Lyell's idea of a cyclic pattern of the Earth's history.

Back Cover

Sir Charles Lyell
(1797–1875)
Illustration: Subhankar Biswas

Inside Back Cover

Night Life
By Sindhu Radhakrishna
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साहित्य अमृत, वर्ष 25 अंक 1, अप्रैल 2020

साहित्य अमृत

मासिक
चैत्र वैशाख, संवत् २०७७ ● अप्रैल २०२०
वर्ष-२५ ● अंक-९ ● पृष्ठ ८४
यू.जी.सी. केयर लिस्ट में क्र. ४८ पर सूचीबद्ध
ISSN 2455-1171

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प्रकाशक, मुद्रक तथा स्वत्वाधिकारी पीयूष कुमार द्वारा ४/१९, आसफ अली रोड, नई दिल्ली-२ से प्रकाशित एवं न्यू प्रिंट इंडिया प्रा.लि., ८/४-बी, साहिबाबाद इंडस्ट्रियल एरिया, साइट-IV, गाजियाबाद-२०१०१० द्वारा मुद्रित।

साहित्य अमृत में प्रकाशित लेखों में व्यक्त विचार एवं दृष्टिकोण संबंधित लेखक के हैं। संपादक अथवा प्रकाशक का उनसे सहमत होना आवश्यक नहीं है।

इस अंक में

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Health & Safety

For all practical procedures described in *SSR*, we have attempted to ensure that:
- all recognised hazards have been identified;
- appropriate precautions are suggested;
- where possible procedures are in accordance with commonly adopted model risk assessments;
- if a special risk assessment is likely to be necessary this is highlighted.

However errors and omissions can be made, and employers may have adopted different standards. Therefore, before any practical activity, teachers should always check their employer's assessment. Any local rules issued by their employer must be obeyed, whatever is recommended in *SSR*.

Unless the context dictates otherwise it is assumed that:
- practical work is conducted in a properly equipped laboratory;
- any mains-operated and other equipment is properly maintained;
- any fume cupboard operates at least to the standard of CLEAPSS Guide G9;
- care is taken with normal laboratory operations such as heating substances or handling heavy objects;
- good laboratory practice is observed when chemicals or living organisms are handled;
- eye protection is worn whenever there is any recognised risk to the eyes;
- fieldwork takes account of any guidelines issued by the employer;
- pupils are taught safe techniques for such activities as heating chemicals or smelling them, and for handling microorganisms.

Readers requiring further guidance are referred to:
Hazcards (CLEAPSS, 2016 and updates)
Topics in Safety, 3rd edn (ASE, 2001); updates available at www.ase.org.uk/resources/topics-in-safety
Safeguards in the School Laboratory, 12th edn (ASE, 2020)
Preparing Risk Assessments for Chemistry Project Work in Schools & Colleges (SSERC, 2020)
SSERC hazardous chemicals database (www.sserc.org.uk/health-safety/chemistry-health-safety/hazchem; subscription)
Be Safe! Health and Safety in School Science and Technology for Teachers of 3- to 12-Year-olds, 4th edn (ASE, 2

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