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आविष्कार , वर्ष 50 अंक 2 फरवरी, 2020

आविष्कार

फरवरी 2020, वर्ष 50, अंक 2 ISSN 0970-6607

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अनौपचारिकता, वर्ष 46 अंक 1 जनवरी, 2020

समानो मन्त्रः समितिः समानी समानं मनः सहचित्तमेषाम्।
समानं मन्त्रमभिमन्त्रये वः समानेन वो हविषा जुहोमि।।
समानी व आकूतिः समाना हृदयानि वः।
समानमस्तु वो मनो यथा वः सुसहासति।। ऋग्वेद

अनौपचारिका

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वर्ष : ४६ अंक : ०१ पौष-माघ वि.सं. २०७६ जनवरी, २०२०

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संस्थापक संपादक एवं संरक्षक : रमेश थानवी | कार्यकारी संपादक : प्रेम गुप्ता | प्रबंध संपादक : दिलीप शर्मा
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राजस्थान प्रौढ़ शिक्षण समिति

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फोन : 2700559, 2706709, 2707677
ई-मेल : racajaipur@gmail.com

अनौपचारिकता, वर्ष 46 अंक 2 फरवरी, 2020

समानो मन्त्रः समितिः समानी समानं मनः सहचित्तमेषाम्।
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समानमस्तु वो मनो यथा वः सुसहासति।।

ऋग्वेद

अनौपचारिका

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वर्ष : ४६ अंक : २ • माघ-फाल्गुन वि.सं.२०७६ • फरवरी, २०२०

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७-ए, झालाना डूंगरी संस्थान क्षेत्र, जयपुर-३०२००४
फोन : २७००५५६, २७०६७०६, २७०७६७७
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डाउन टू अर्थ, वर्ष 02 अंक 3 जनवरी, 2020

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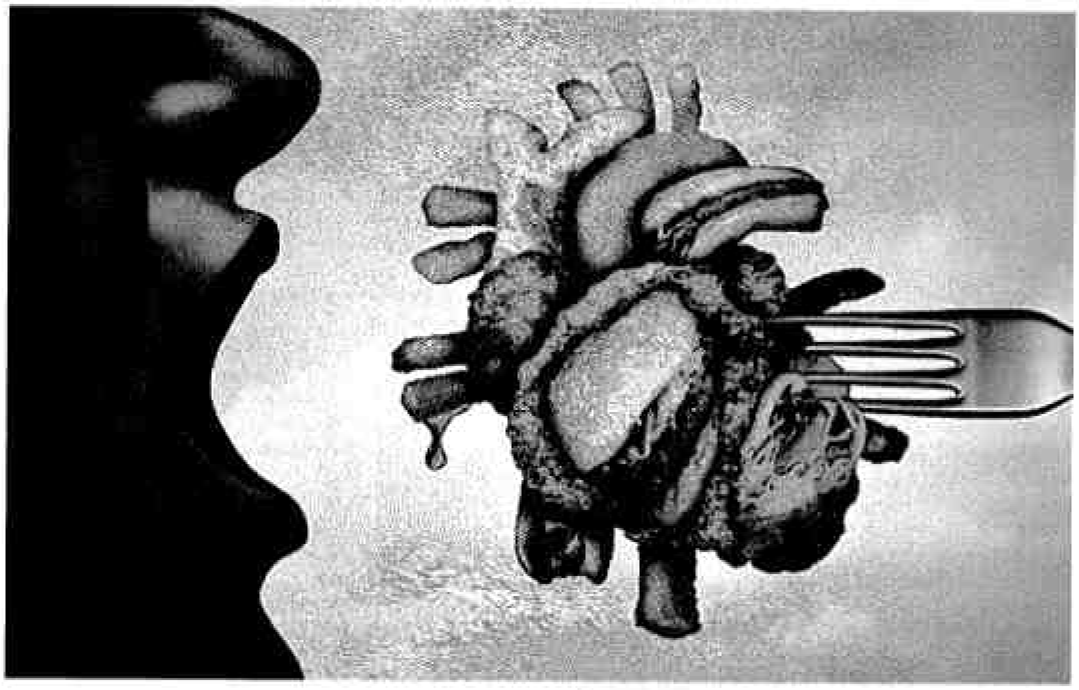

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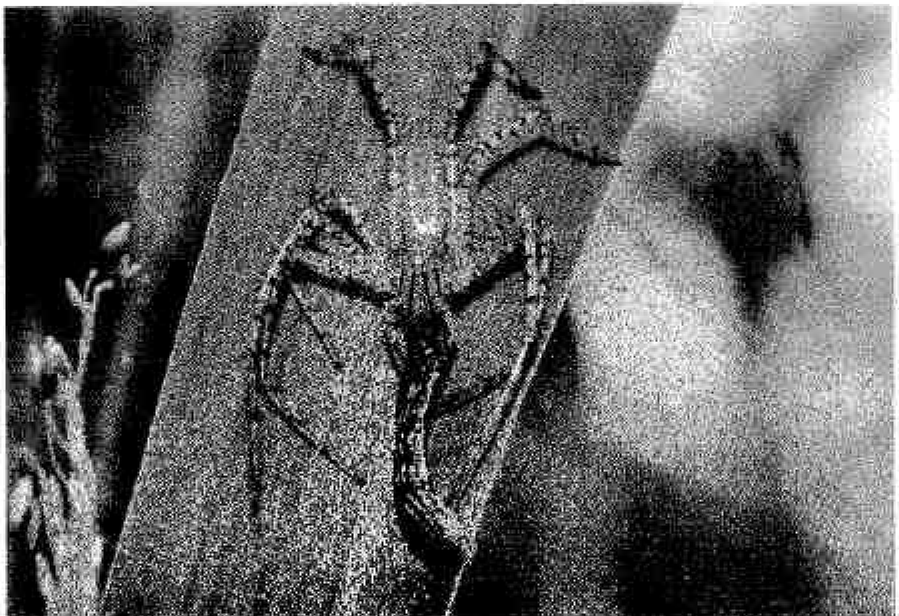

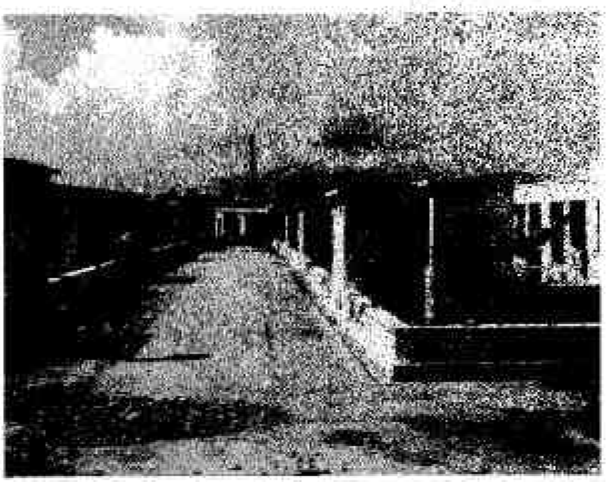

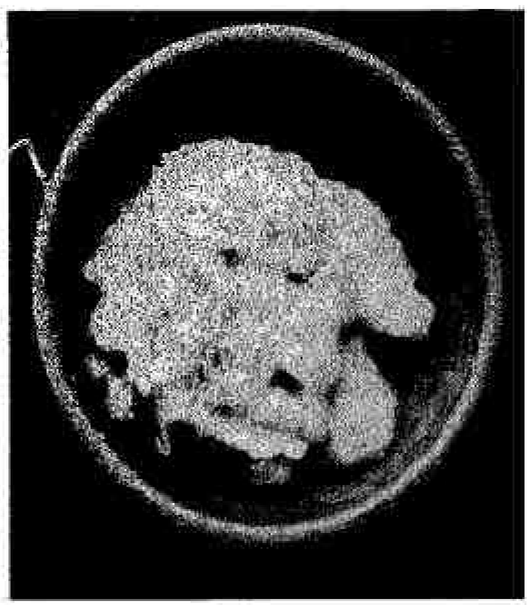

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EduTracks Vol.19 No. 6 February, 2020

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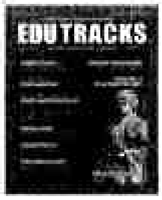

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महानिदेशक

भारतीय सांस्कृतिक संबंध परिषद, नई दिल्ली

संपादक

डॉ. हरीश नवल

सहायक संपादक

डॉ. आशीष कंधवे

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Journal of Astrophysics & Astronomy Vol.40 No. 6 December, 2019

Journal of Astrophysics & Astronomy

Volume 40
December 2019

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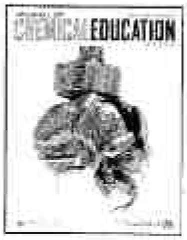
Journal of Chemical Education Vol.96 No. 10 October, 2019

JOURNAL OF CHEMICAL EDUCATION

OCTOBER 2019
VOLUME 96 ISSUE 10



ON THE COVER: National Chemistry Week, a community-based annual event uniting ACS local sections, businesses, schools, and individuals in communicating the value of chemistry in our everyday life, is being celebrated October 20–26, 2019 with the theme "Marvelous Metals". Articles featuring metals in this and past issues of the *Journal of Chemical Education* can help you make the most of this ACS annual celebration, including "Electroless Deposition on Three Substrates: Brass Washers, Cicada Exoskeletons, and Beetles" (DOI: 10.1021/acs.jchemed.9b00055). In this laboratory experiment, Craig J. Donahue, Amina Marini, Codruta Savu, and Hanan Yehya showcase electroless deposition, an autocatalytic reduction process performed in aqueous solution containing a metal ion in the presence of a reducing agent, yielding a coherent metal film. The cover shows a nickel-plated cicada exoskeleton being held by a neodymium magnet.

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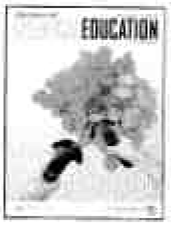
Supporting Information available via online article

Journal of Chemical Education Vol.96 No. 11 November, 2019

JOURNAL OF CHEMICAL EDUCATION

NOVEMBER 2019
VOLUME 96 ISSUE 11



ON THE COVER: Virtual reality (VR) is an affordable, high-quality commodity hardware that can offer new ways to teach, communicate, and engage with complex molecular topics while enabling students to become comfortable with emerging simulation and visualization approaches. In "Teaching Enzyme Catalysis Using Interactive Molecular Dynamics in Virtual Reality" (DOI: 10.1021/acs.jchemed.9b00181), Simon J. Bennie, Kara E. Ranaghan, Helen Deeks, Heather E. Goldsmith, Michael B. O'Connor, Adrian J. Mulholland, and David R. Glowacki describe a traditional computational chemistry class complemented by an additional component using real-time interactive molecular dynamics simulations in VR (iMD-VR) and show that iMD-VR is an effective and practical tool for demonstrating biochemical processes to undergraduate students. On the cover, an image of chorismate mutase in a van der Waals "rainbow" rendering shows from the user's perspective how with VR it is possible to reach into an enzyme and interact with the molecular world. The active site of the enzyme is highlighted in a ball and stick representation showing the enzyme substrate, chorismate, and key amino acid residues.

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Journal of Chemical Education Vol.96 No. 11 November, 2019

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DOI: 10.1021/acs.jchemed.9b00899

Correction to "Learning Nuclear Chemistry through Practice: A High School Student Project Using PET in a Clinical Setting"

Lucia Liguori* and Tom Christian Holm Adamsen

2677

DOI: 10.1021/acs.jchemed.9b00973

Correction to "A Reverse Science Fair that Connects High School Students with University Researchers"

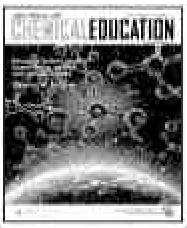
Brian Mernoff, Amanda R. Aldous, Natalie A. Wasio, Joshua A. Kritzer, E. Charles H. Sykes,* and Karen O'Hagan*

Supporting Information available via online article

Journal of Chemical Education Vol.96 No. 12 December, 2019

JOURNAL OF CHEMICAL EDUCATION

DECEMBER 2019
VOLUME 96 · ISSUE 12



ON THE COVER: In response to a call for papers, chemistry educators from around the world have contributed articles to the *Journal of Chemical Education* now collected in a special issue on systems thinking, and green and sustainable chemistry. This special issue topic was proposed by the IUPAC task force on Systems Thinking in Chemistry Education. Papers in the issue are intended to be the inaugural global reference point for literature on systems thinking in chemistry education that will lead to further understanding about the interdependence of the components of systems at work for chemistry learners, and the application of systems thinking to green and sustainable chemistry education. Contributions to the "Reimagining Chemistry Education: Systems Thinking, and Green and Sustainable Chemistry" special issue have a designation that they are part of the collection published in this issue.

SPECIAL ISSUE: REIMAGINING CHEMISTRY EDUCATION: SYSTEMS THINKING, AND GREEN AND SUSTAINABLE CHEMISTRY

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ISSN 0970-9312

प्राथमिक शिक्षक

वर्ष 43 | अंक 1 | जनवरी 2019

इस अंक में

द्या से अमरत्व
प्त होता है।

परस्पर आवेष्टित हंस राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद् (एन.सी.ई.आर.टी.) के कार्य के तीनों पक्षों के एकीकरण के प्रतीक हैं–
(i) अनुसंधान और विकास,
(ii) प्रशिक्षण, तथा (iii) विस्तार।
यह डिज़ाइन कर्नाटक राज्य के रायचूर जिले में मस्की के निकट हुई खुदाइयों से प्राप्त ईसा पूर्व तीसरी शताब्दी के अशोकयुगीन भग्नावशेष के आधार पर बनाया गया है।
उपर्युक्त आदर्श वाक्य ईशावास्य उपनिषद् से लिया गया है जिसका अर्थ है– विद्या से अमरत्व प्राप्त होता है।

साहित्य अमृत, वर्ष **25** अंक **7** फरवरी, **2020**

साहित्य अमृत

माघ-फाल्गुन, संवत्-२०७६ ◆ फरवरी २०२०

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प्रकाशक, मुद्रक तथा स्वत्वाधिकारी श्यामसुंदर द्वारा ४/१९, आसफ अली रोड, नई दिल्ली-२ से प्रकाशित एवं आर्टिक आर्ट्स, ११६७, कूचा दखनीराय, दरियागंज, नई दिल्ली-२ द्वारा मुद्रित।

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School Science Vol.53 No. 1 March, 2015

ISSN 0036-679X (print)
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COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

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School Science Review December 2019, **101**(375)

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, 11th edn (ASE, 2006)
Preparing COSHH Risk Assessments for Project Work in Schools (SSERC, 1991)
SSERC hazardous chemicals database (www.sserc.org.uk/health-safety/chemistry-health-safety/hazchem_database-2/)
Be Safe! Health and Safety in School Science and Technology for Teachers of 3- to 12-Year-olds, 4th edn (ASE, 2011)

University News Vol.58 No. 04, January 27- February 02, 2020

UNIVERSITY NEWS

Vol. 58 **January 27-**
No. 04 **February 02, 2020**
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A Weekly Journal of Higher Education Published by the Association of Indian Universities

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