

Current Content Alert Services

Current Content Alert Services

MONTH *March* YEAR **2022**

Compiler: Y.K.Rajoriya



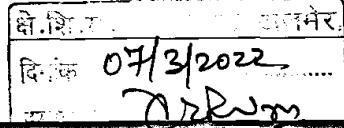
LIBRARY
REGIONAL INSTITUTE OF EDUCATION
(NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING)
Capt. D.P. Choudhary Road, Ajmer - 305004
E-mail: rieajmer@yahoo.com Phone: 0145-2643721, 2643864; (Fax) 2643862

Library
RIE, Ajmer

S.No.	Name of Journals	Vol.No.	Pages
1	आविष्कार	52(3)	1
2	अनौपचारिका	48(2)	2
3	American Journal of Physics	89(1-12)	3-14
4	Ethics and Education	16(1-4)	15-18
5	हंस	36(9)	19
6	International Journal of Inclusive Education	25(9-14)	25
7	Journal of Computer Assisted Learning	37(5-6)38(1-2)	26-33
8	Journal of Human Values	27(2)28(1)	34-35
9	Journal of Moral Education	50(1-4)	36-39
10	Journal of Philosophy of Education	55(4-6)	40-44
11	Journal of Research in Science Teaching	58(6-10)59(1-3)	45-52
12	मधुमती	62(2)	53-54
13	Oxford Review of Education	48(1-2)	55-56
14	Professional Development in Education	48(2)	57-58
15	Reflective Practice	23(1-2)	59-60
16	Review of Educational Research	91(1-6)	61-66
17	साहित्य अमृत	27(9)	67
18	Technology Pedagogy and Education	30(1-5)	68-72
19	Theory Into Practice	60(1-4)	73-76
20	University News	60(8-12)	77-83

आविष्कार वर्ष 52 अंक 3, मार्च, 2022

आविष्कार



मार्च 2022, वर्ष 52, अंक 3 इस अंक में ISSN 0970-6607

अध्यक्ष एवं प्रबंध निदेशक
कमोडोर अमित रस्तोगी (से.नि.)

प्रमुख
एन.जी. लक्ष्मीनारायण

संपादक
डॉ. अंकिता मिश्रा

विक्रय
वरिष्ठ कार्यकारी अधिकारी
स्मिता पाराशर

अनुभाग अधिकारी
खेमचंद

वितरण
अरविन्द कौशिक
दीपक तुली
प्रवीन राजौरा
जयसिंह



नेशनल रिसर्च डिवेलपमेंट
कारपोरेशन

[वैज्ञानिक और औद्योगिक अनुसंधान विभाग,
विज्ञान और प्रौद्योगिकी मंत्रालय,
भारत सरकार का उद्यम]

20-22, जमरूदपुर सामुदायिक केंद्र
कैलाश कॉलोनी एक्सटेंशन
नई दिल्ली-110048

फोन : 29240401-07
फैक्स : 091-11-29240409, 29240410
ई-मेल : write2@nrdc.in
editors.nrdc@gmail.com
वेबसाइट : www.nrdcindia.com
CIN : U74899 DL 1987 GOI 002354

लेख :

अपशिष्ट जल उपचार से ऊर्जा उत्पादन
— डॉ. शुभ्रता मिश्रा 5

जल उपचार की नई प्रौद्योगिकियां
— प्रज्ञा गौतम 12

बढ़ते तापमान का असर - तेजी से पिघल रहे हैं माउंट एवरेस्ट के ग्लेशियर
— महेंद्र पाण्डेय 19

भारत की महान बेटी कल्पना चावला
— डॉ. कृष्ण कुमार मिश्र 24

विविधा :

हाइड्रोपोनिक्स : बिना मृदा के पौधों को उगाने की तकनीक
— प्रो. दिनेश मणि 28

विज्ञान साहित्य चर्चा :

मापन प्रणाली के विकास और आधुनिक स्वरूप को दर्शाती पुस्तक
— डॉ. कृष्णा नन्द पाण्डेय 36

कौशल विकास मंच :

तापमान आधारित डिजिटल फैन स्पीड कंट्रोलर
— अभिनव चौरे 39

खेल-खेल में विज्ञान :

कटोरी का स्वतः रखसकना
— दुष्यन्त कुमार अग्रवाल 43

अनुसंधान और विकास :

फसलों पर श्री तापमान वृद्धि का असर
— राकेश कुमार माहवीय 45

समाचारिकी : 47

एनआरडीसी समाचार : 51

आवरण: पारुल सिन्हा

• 'आविष्कार' नेशनल रिसर्च डिवेलपमेंट कारपोरेशन (एनआरडीसी) द्वारा प्रकाशित विज्ञान और प्रौद्योगिकी की लोकप्रिय विज्ञान मासिक पत्रिका है। • 'आविष्कार' में किसी लेख के प्रकाशन हेतु चयन के संदर्भ में संपादक का निर्णय अंतिम होगा। प्रकाशित लेखों और लेखकों द्वारा भेजे गए चित्रों की मौलिकता के संबंध में लेखक स्वयं उत्तरदायी होंगे। • 'आविष्कार' में प्रकाशित सामग्री का किसी भी रूप में उपयोग करने से पूर्व संपादक की अनुमति लेना आवश्यक है। • 'आविष्कार' में प्रकाशित किसी यांत्रिक, वैद्युत, इलेक्ट्रॉनिक आदि युक्ति के काम न करने की स्थिति में पत्रिका/एनआरडीसी उसके लिए उत्तरदायी नहीं होगी। • 'आविष्कार' में प्रकाशित विज्ञापनों में किए गए दावों के लिए पत्रिका और एनआरडीसी उत्तरदायी नहीं होगी।
आविष्कार का सदस्यता शुल्क: एक प्रति: ₹50; वार्षिक: ₹550; द्विवार्षिक: ₹1,100; त्रिवार्षिक: ₹1,850

आविष्कार — मार्च 2022

अनौपचारिका वर्ष 48 अंक 2 फ़रवरी, 2022

क्षे.शि.सं. पुस्तकालय, अजमेर।
दिनांक 02/02/2022
हस्ताक्षर.....

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

समकालीन शिक्षा-चिन्तन की पत्रिका

वर्ष : ४६ अंक : २ माघ-फाल्गुन वि.सं. २०७८ फरवरी, २०२२

क्रम

०३ | वाणी
जयशंकर प्रसाद

०७ | व्याख्यान
छवि का व्याकरण

१२ | कविता
प्रशान्ति

२३ | संवाद
चरखा और कैमरा

२६ | भावांजलि

अपील

समिति के सभी सदस्यों, दूर-
दराज के मित्रों एवं भारत के
विभिन्न राज्यों में फैले सुधी पाठकों
से निवेदन है कि समिति के
प्रकाशन की निरंतरता बनाये रखने
के लिए अपनी सहयोग राशि पूरी
उदारता के साथ भिजवाने का
अनुग्रह करें। आज किसी भी
पत्रिका का प्रकाशन बहुत मुश्किल
काम है मगर समिति अपने पूर्ण
सेवा भाव के साथ अनौपचारिका
को पिछले ४६ वर्षों से निरंतर
निकाल रही है। सभी प्रबुद्ध पाठक
जानते हैं कि अभी हाल ही में
कादम्बिनी भी बंद हो गई है जो

०५ | अपनी बात
चित् छाया

१० | लेख
मन की आंख

१३ | दर्शनी

२४ | नवाचार
पदयात्रा

आवरण छायाचित्र
हिमांशु व्यास

हिन्दुस्तान टाइम्स का प्रकाशन था। ऐसी स्थिति में हम कटिबद्ध हैं कि
अनौपचारिका निरंतर निकलती रहे। आपका सहयोग सादर अपेक्षित है।

BANK OF BARODA
Rajasthan Adult Education Association
Branch Name : IDS Ext.Jhalana Jaipur

I.F.S.C.Code : BARB0EXTNEH
(fifth Character is zero)
Micr Code : 302012030
Acct.No. 9815010002077



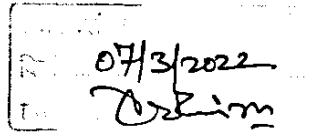
संस्थापक संपादक एवं संरक्षक :
रमेश थानवी
कार्यकारी संपादक :
प्रेम गुप्ता
प्रबंध संपादक :
दिलीप शर्मा

राजस्थान प्रौढ़ शिक्षण समिति
७-ए, झालाना डूंगरी संस्थान क्षेत्र,
जयपुर-३०२००४
फोन : 2700559, 2706709, 2707677
ई-मेल : racajaipur@gmail.com

सद्भावना सहयोग :
व्यक्तिगत ५००/- रुपये वार्षिक
संस्थागत १०००/- रुपये वार्षिक
मैत्री समुदाय ५०००/- रुपये

American Journal of Physics Vol.89, No. 1 January, 2021

AMERICAN
JOURNAL
of PHYSICS



CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No.1
January 2021

	EDITORIAL	
5	In this issue: January 2021	<i>Beth Parks</i>
	GUEST EDITORIAL	
7	Online administration of research-based assessments	
	LETTERS TO THE EDITOR	
9	Neumann, but hold the von	<i>Alexander R. Klotz</i>
9	Avoid propagation of typos with numerical methods	<i>B. H. Suits</i>
10	Ball bearings and bearing balls	<i>Rod Cross</i>
10	A cabinet of curiosities	<i>Seán M. Stewart</i>
	PAPERS	
11	An optical n-body gravitational lens analogy	<i>Markus Selmke</i>
21	Sun glints and luminous wriggles by the seashore	<i>R. De Luca</i>
26	Rabi oscillations, Floquet states, Fermi's golden rule, and all that: Insights from an exactly solvable two-level model	<i>R. Merlin</i>
35	Calculating spin correlations with a quantum computer	<i>Jed Brody and Gavin Guzman</i>
41	Equilibrium probability distribution for number of bound receptor-ligand Complexes	<i>Tuhin Chakraborty and Manoj M. Varma</i>
51	Six textbook mistakes in computational physics	<i>Alexandros Gezerlis and Martin Williams</i>
61	Teaching college writing from a physicist's perspective	<i>Kristen L. Thompson, Anthony N. Kuchera and John N. Yukich</i>
67	A vertical race up and back down with and without drag	<i>Carl E. Mungan, Seth T. Rittenhouse and Trevor C. Lipscombe</i>
72	High-speed escape from a circular orbit	<i>Philip R. Blanco and Carl E. Mungan</i>
80	Of balls, bladders, and balloons: The time required to deflate an elastic sphere	<i>Don S. Lemons and Trevor C. Lipscombe</i>
84	Chaos in the monopole ion trap	<i>Edgar Perez and John Essick</i>
96	Modeling and measuring the non-ideal characteristics of transmission lines	<i>J. S. Bobrowski</i>
	INSTRUCTIONAL LABORATORIES AND DEMONSTRATIONS	
105	Standing waves in a coaxial cable: A simple and low-cost experiment for an instructional wave laboratory	<i>Vinicius M. Lenart, Romeu M. Szmoski, Rozane F. Turchiello and Sergio L. Gómez</i>
111	A demonstration of quantum key distribution with entangled photons for the undergraduate laboratory	<i>Aayam Bista, Baibhav Sharma and Enrique J. Galvez</i>

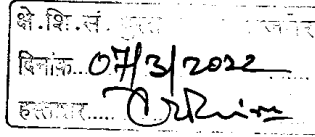
(Continued)

American Journal of Physics Vol.89, No. 2 February, 2021

AMERICAN
JOURNAL
of PHYSICS

CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No.2
February 2021



EDITORIAL

129 In this issue: February 2021

Beth Parks

BACK OF THE ENVELOPE

131 When to postpone approximating: The Rule of 69.3ish

Sanjoy Mahajan

PAPERS

134 On levitation by blowing

Paul K. Newton and Y. Ma

143 Bouncing on a slope

*Rouben Rostamian, Ana Maria Soane
and José M. Tavares*

147 Investigating t_∞ for bouncing balls

Paul J. Hatchell

157 Basics of sound in air: Correspondence with electromagnetic waves

Ulrich Zürcher

164 d'Alembert digitized: A wave pulse method for visualizing electromagnetic waves in matter and for deriving the finite difference time domain method for numerically solving Maxwell's equations

*Ross Hyman, Nathaniel P. Stern
and Allen Taflove*

172 Introducing SU(3) color charge in undergraduate quantum mechanics

*Brandon L. Inscoc and Jarrett L.
Lancaster*

185 Length as a paradigm for understanding the classical limit

Mark G. Kuzyk

200 Boosting vector calculus with the graphical notation

*Joon-Hwi Kim, Maverick S. H. Oh and
Keun-Young Kim*

INSTRUCTIONAL LABORATORIES AND DEMONSTRATIONS

210 Spatial structuring of light for undergraduate laboratories

*Sergei Panarin, Jonas Müller, Shashi
Prabhakar and Robert Fickler*

220 Index matching computerized tomography

*Vincent Daley, Owen Paetkau and
Mark Paetkau*

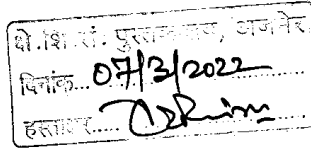
BOOK REVIEWS

227 A Student's Guide to the Schrödinger Equation

David Derbes

American Journal of Physics Vol.89, No. 3 March, 2021

AMERICAN
JOURNAL
of PHYSICS



CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No.3
March 2021

EDITORIAL

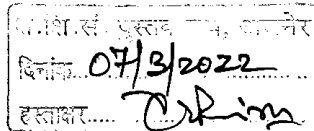
233 In this issue: March 2021

PAPERS

- | | | |
|-----|---|---|
| 235 | The sun diver: Combining solar sails with the Oberth effect | <i>Beth Parks</i> |
| 244 | Different scenarios of shrinking surface soap bubbles | <i>Coryn A. L. Bailer-Jones</i> |
| 253 | High-speed visualization of soap films bursting dynamics | <i>Matteo Clerget, Alexandre Delvert,
Laurent Courbin and Pascal Panizza</i> |
| 261 | Mechanical approach to surface tension and capillary phenomena | <i>Arseny A. Volodko and Alexander E.
Dubinov</i> |
| 267 | Understanding and enhancing the impact-induced tension of a falling chain | <i>Marc Durand</i> |
| 277 | Resolving tensions surrounding massive pulleys | <i>J. Pantaleone</i> |
| 284 | Eddy currents in multilayer coils | <i>D. J. Durian, J. Kroll and E. J. Mele</i> |
| 291 | How much electric surcharge fits on ... a "white dwarf" star? | <i>Igor N. Gorbatyy and Iana P. Zhura</i> |
| 300 | Transport through quantum dots: An introduction via master equation simulations | <i>Parker Hund and Michael K.-H.
Kiessling</i> |
| 307 | Quantum composer: A programmable quantum visualization and simulation tool for education and research | <i>Robert A. Bush, Erick D. Ochoa and
Justin K. Perron</i> |
| 317 | Active learning in a graduate quantum field theory course | <i>Shaema Zaman Ahmed, Jesper
Hasseris Mohr Jensen, Carrie Ann
Weidner, Jens Jakob Sørensen,
Marcel Mudrich and Jacob Friis
Sherson</i> |
| 324 | Physically significant phase shifts in matter-wave interferometry | <i>G. Peter Lepage</i> |
| | | <i>Chris Overstreet, Peter Asenbaum and
Mark A. Kasevich</i> |

American Journal of Physics Vol.89, No. 4 April, 2021

AMERICAN
JOURNAL
of PHYSICS



CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No.4
April 2021

EDITORIAL

337 In this issue: April 2021

Beth Parks

BACK OF THE ENVELOPE

339 How far can planes and birds fly?

Sanjoy Mahajan

PAPERS

342 The mobile phone as a free-rotation laboratory

*Michael S. Wheatland, Tara Murphy,
Daniel Naoumenko, Daan van
Schijndel and Georgio Katsifis*

349 Euler's rigid rotators, Jacobi elliptic functions, and the Dzhaniybekov or tennis racket effect

Christian Peterson and William Schwalm

358 The rolling elliptical cylinder

*Johan Lindén, Kjell-Mikael Källman
and Markus Lindberg*

365 Evaluating wind turbine power coefficient—An undergraduate experiment

*Edward W. K. Chan, Ken K. K. Tsung,
Terence K. K. Chan and Nai-Ho
Cheung*

370 Frequency-dependent capacitors using paper

Bart H. McGuyer

372 Plasma generation by household microwave oven for surface modification and other emerging applications

*Benjamin K Barnes, Habilou Ouro-
Koura, Justin Derickson, Samuel
Lebarty, Jesudara Omidokun,
Nathan Bane, Othman Suleiman,
Eguono Omagamre, Mahdi J.
Fotouhi, Ayobami Ogunmolasuyi,
Arturo Dominguez, Larry Gonick
and Kausik S. Das*

383 Acoustic levitation and the acoustic radiation force

*David P. Jackson and Ming-Hua
Chang*

393 Tesla's fluidic diode and the electronic-hydraulic analogy

*Quynh M. Nguyen, Dean Huang,
Evan Zauderer, Genevieve
Romanelli, Charlotte L. Meyer and
Leif Ristroph*

403 A guide for incorporating e-teaching of physics in a post-COVID world

Daniel J. O'Brien

413 The Persico equation for minimum uncertainty states

Vincenzo Barone

418 The bound-state solutions of the one-dimensional hydrogen atom

Rufus Boyack and Frank Marsiglio

426 A first encounter with the Hartree-Fock self-consistent-field method

Robin Santra and Michael Obermeyer

COMPUTATIONAL PHYSICS

437 Digital imaging of a random walk by computer simulation: Using a simple model to interpret the effects of finite spatio-temporal resolution

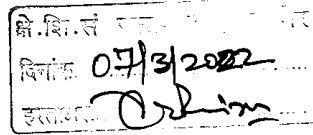
*Swayamshree Patra, Swagata Dey,
Krishanu Ray and Debashish
Chowdhury*

(Continued)

AMERICAN
JOURNAL
of PHYSICS

CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No.5
May 2021

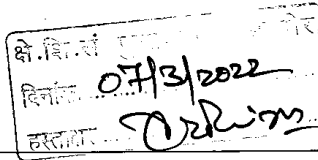


EDITORIAL	
449 In this issue: May 2021	<i>Beth Parks</i>
LETTERS TO THE EDITOR	
451 Manhattan project patents and S-Numbers explained	<i>Bill Streifer</i>
452 Bouncing ball impacts	<i>Rod Cross</i>
453 Jerrold Zacharias, a passionate educator	<i>Rainer Weiss</i>
PAPERS	
454 A geometric method to locate Neptune	<i>Siddharth Bhatnagar, Jayanth P. Vyasnakere and Jayant Murthy</i>
459 Gutterballs and rolling down the tubes	<i>Keith Zengel</i>
465 Application of the Helfrich elasticity theory to the morphology of red blood cells	<i>L. Martínez-Balbuena, A. Arteaga-Jiménez, E. Hernández-Zapata and E. Urrutia-Buñuelos</i>
477 Using mobile-device sensors to teach students error analysis	<i>Martín Monteiro, Cecilia Stari, Cecilia Cabeza and Arturo C. Martí</i>
482 Space-time computation and visualization of the electromagnetic fields and potentials generated by moving point charges	<i>Matthew J. Filipovich and Stephen Hughes</i>
490 Magnetic diffusion, inductive shielding, and the Laplace transform	<i>Alexander E. Krosney, Michael Lang, Jakob J. Weirathmueller and Christopher P. Bidinosti</i>
500 Schrödinger's equation as a diffusion equation	<i>Katsunori Mita</i>
511 Two-body bound states through Yukawa forces and perspectives on hydrogen and deuterium	<i>Henrique L. Ennes, Moira I. Gresham and Alexander F. Shaw</i>
521 Particle velocity = group velocity: A common assumption in the different theories of Louis de Broglie and Erwin Schrödinger	<i>Nathan Lima and Ricardo Karam</i>
529 A guide to the literature of the finite rectangular well	<i>B. Cameron Reed</i>
535 Simple derivation of the explicit forms of quantum-mechanical fundamental representations	<i>Ye-Jun Xu, Xiu-Chun Ding, Ji-Zhu Peng and Shu-Dong Fang</i>
538 A simple model system to study coupled photonic crystal microcavities	<i>Alain Perrier, Yoan Guilloit, Étodie Le Cren and Yannick Dumeige</i>
BOOK REVIEWS	
546 The Science of Learning Physics: Cognitive Strategies for Improving Instruction	<i>William J. Mullin</i>
547 Fly by Night Physics: How Physicists Use the Backs of Envelopes	<i>Lawrence Weinstein</i>
PAPERS	
548 Erratum: "Feynman, Lewin, and Einstein download Zoom: A guide for incorporating e-teaching of physics in a post-COVID world" [Am. J. Phys. 89, 403 (2021)]	<i>Daniel J. O'Brien</i>

AMERICAN
JOURNAL
of PHYSICS

CODEN: AJPIAS
ISSN: 0002-9505

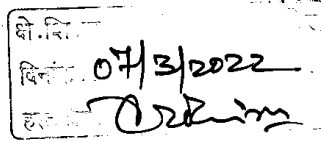
Volume 89, No.6
June 2021



EDITORIAL		
553	In this issue: June 2021	<i>Beth Parks</i>
555	Statistics, updates, and changes at AJP	<i>Beth Parks</i>
BACK OF THE ENVELOPE		
557	Naïve Bohr-type quantization for power-law potentials	<i>Jacob Katriel</i>
PAPERS		
559	Interception and rendezvous: An intuition-building approach to orbital dynamics	<i>Eric M. Edlund</i>
567	Why does water shoot higher if we partially block the garden hose outlet?	<i>Mohammad-Reza Alam</i>
575	Not the garden hose instability: Wavelength selection in a buckling garden hose	<i>Tianyi Guo, Xiaoyu Zheng and Peter Palffy-Muhoray</i>
583	Energy loss and jerk on the loop-the-loop	<i>Karl C. Mamola and William A. (Toby) Dittrich</i>
589	On viewing the Himalayas from the plains	<i>Vijay A. Singh and Arnav Singh</i>
596	Arduino™ microprocessors as a platform for modeling framework labs	<i>Matthew J. Farrar</i>
603	Fréedericksz transition on air	<i>Juliette Plo, Dihya Sadi, Elio Thellier, Pawel Pieranski, Mehdi Zeghal and Patrick Judeinstein</i>
612	Algorithm to visualize a 3D normal surface in anisotropic crystals and the polarization states of the o- and e-waves in uniaxial crystals	<i>Luis Oscar González-Siu, Martha Rosete-Aguilar and Neil C. Bruce</i>
618	Searching a quantum database with Grover's search algorithm	<i>Ben Kain</i>
627	A new look at quantal time evolution	<i>Aparajita Bhattacharyya, Jayanta K. Bhattacharjee and Debabrata Sinha</i>
634	Gravitational time dilation, free fall, and matter waves	<i>Anna P. Czarnecka and Andrzej Czarnecki</i>
639	Gravitational waves physics using Fermi coordinates: A new teaching perspective	<i>Matteo Luca Ruggiero</i>
INSTRUCTIONAL LABORATORIES AND DEMONSTRATIONS		
647	Soil analysis using a 2" NaI gamma detector	<i>Rebekah Aguilar, Patrick Powers, Nina Abramzon and P. B. Siegel</i>
BOOK REVIEWS		
655	Every Life on Fire: How Thermodynamics Explains the Origins of Living Things	<i>Harvey S. Leff</i>

American Journal of Physics Vol.89, No. 7 July, 2021

AMERICAN
JOURNAL
of PHYSICS



CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No.7
July 2021

EDITORIAL

661 In this issue: July 2021

Beth Parks

PAPERS

663 Hysteresis in a simple V-shaped spring-mass system

Christopher Ong

666 Rock and roll of an ellipse

C. R. Heppler and G. M. T. D'Eleuterio

677 Oscillation of a balanced hollow cylinder on an inclined plane Video Abstract Icon

R. De Luca

683 The true story of Newtonian gravity

Eugene Hecht

693 Scattering problems via real-time wave packet scattering

M. Staelens and F. Marsiglio

702 An interactive gravitational-wave detector model for museums and fairs

S. J. Cooper, A. C. Green, H. R. Middleton, C. P. L. Berry, R. Buscicchio, E. Butler, C. J. Collins, C. Gettings, D. Hoyland, A. W. Jones, J. H. Lindon, I. Romero-Shaw, S. P. Stevenson, E. P. Takeva, S. Vinciguerra, A. Vecchio, C. M. Mow-Lowry and A. Freise

713 Integrating numerical modeling into an introductory physics laboratory

Diana Sachmpazidi, Manuel Bautista, Zbigniew Chajecki, Claudio Mendoza and Charles Henderson

721 Haidinger-Michelson rings in white light

Youssef El Azhari and Saïd Tagmouti

INSTRUCTIONAL LABORATORIES AND DEMONSTRATIONS

730 Rubidium isotope shift measurement using noisy lasers

Theodore J. Bucci, Jonathan Feigert, Michael Crescimanno, Brandon Chamberlain and Alex Giovannone

BOOK REVIEWS

739 Energy and Entropy: A Dynamic Duo

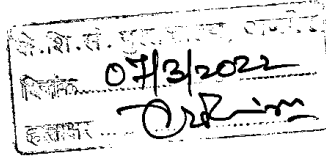
Eric Johnson

American Journal of Physics Vol.89, No. 8 August, 2021

AMERICAN
JOURNAL
of PHYSICS

CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No.8
August 2021



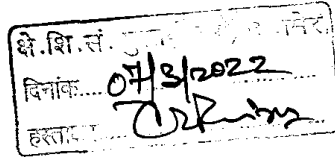
EDITORIAL		
745	In this issue: August 2021	<i>Beth Parks</i>
747	Supporting student success	<i>Beth Parks</i>
BACK OF THE ENVELOPE		
749	Bending of starlight by gravity	<i>Sanjoy Mahajan</i>
PAPERS		
751	Resource Letter RP-1: Race and physics	<i>Katemari Rosa, Jennifer Blue, Simone Hyater-Adams, Geraldine L. Cochran and Chanda Prescod-Weinstein</i>
769	The force required to operate the plunger on a French press	<i>Fabian B. Wadsworth, Caron E. J. Vossen, Michael J. Heap, Alexandra Kushnir, Jamie I. Farquharson, Diana Schmid, Donald B. Dingwell, Lukas Belohlavek, Mila Huebsch, Lucille Carbillet and Jackie E. Kendrick</i>
776	On the consistency of the Lagrange multiplier method in classical mechanics	<i>Nivaldo A. Lemos and Marco Moriconi</i>
783	Black hole flyby	<i>Sebastian J. Szybka</i>
789	Thermal equilibrium of an ideal gas in a free-floating box	<i>Scott Tremaine, Bence Kocsis and Abraham Loeb</i>
793	Classical behavior of a quantum particle in a refringent medium	<i>V. E. Kuzmichev and V. V. Kuzmichev</i>
799	Coulomb scattering in the Born approximation and the use of generalized functions	<i>Peter Collas</i>
806	The floating point: Tales of the unexpected	<i>David A. Faux and Janet Godolphin</i>
NOTES AND DISCUSSIONS		
815	The floating point: Rounding error in timing devices	<i>David A. Faux and Janet Godolphin</i>
817	Comment on "A magnetic velocity Verlet method" [Am. J. Phys. 88, 1075 (2020)]	<i>Siu A. Chin</i>
BOOK REVIEWS		
818	Janus Point: A New Theory of Time	<i>Milan M. Ćirković</i>

American Journal of Physics Vol.89, No. 9 September, 2021

AMERICAN
JOURNAL
of PHYSICS

CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No.9
September 2021



EDITORIAL

825 In this issue: September 2021

Beth Parks

AWARDS

827 2021 AAPT award citations at the virtual summer meeting

PAPERS

830 Forces and conservation laws for motion on our spheroidal Earth

Boyd F. Edwards and John M. Edwards

843 The physics of Magnus gliders

*Nicolas Plihon, Gauthier Legrand,
Francis Pagaud, Arsène Chemin,
Jérémy Ferrand and Nicolas Taberlet*

851 The Newcomb–Benford law: Scale invariance and a simple Markov process based on it

Andrea Burgos and Andrés Santos

862 Interference patterns produced by an evaporating droplet on a horizontal surface

*Gia Long Ngo, Quang Truong Pham,
Ngoc Diep Lai and Danh Bich Do*

869 A physics-based study of the stagnation enthalpy rise of moving normal shocks

Eric Van Horn and David Scarborough

877 Understanding energy propagation during reflection of an evanescent electromagnetic wave

Yashvir Kalkal and Vinit Kumar

885 Making squeezed-coherent states concrete by determining their wavefunction

*E. Munguía-González, S. Rego and J.
K. Freericks*

BOOK REVIEWS

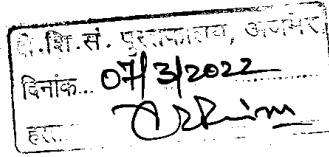
897 Energy and Human Ambitions on a Finite Planet

Daniel V. Schroeder

899 The Great Paradox of Science: Why Its Conclusions Can Be Relied Upon Even Though They Cannot Be Proven

Philip L. Taylor

AMERICAN
JOURNAL
of PHYSICS



CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No.10
October 2021

EDITORIAL

905 In this issue: October 2021

Joseph Amato, Tyler Engstrom, John Essick, Harvey Gould, Claire A. Marrache-Kikuchi, Raina Olsen, Beth Parks and Jan Tobochnik

LETTERS TO THE EDITOR

907 Focused writing in the introductory physics laboratory
908 Science by Diverse Scientists: A Cal-Bridge Physics & Astronomy Seminar Series

Don S. Lemons
Sara Callori, Carol Hood, Alexandra Miller, Aaron Romanowsky and David A. Strubbe

PAPERS

909 Tidal effects in a spacecraft
916 Isotropic inertia tensor without symmetry of mass distribution
921 Analyzing the motion of a mass sliding on a sphere with friction
927 A new graphical depiction of the barn and pole paradox
930 Drone-drone collisions over New York City via the kinetic theory of gases
935 Understanding and compensating for noise on IBM quantum computers
943 Using Hilbert curves to organize, sample, and sonify solar data
955 Broken pencils and moving rulers: After an unpublished book by Mitchell Feigenbaum
963 Methods to depolarize narrow and broad spectrum light

Ugo Besson
Andrei A. Snarskii, Sergii Podlasov and Mikhail Shamonin
Terry W. McDaniel
B. Cameron Reed
Edward W. Walbridge
Scott Johnstun and Jean-François Van Huelé
W. Dean Pesnell, Kyle Ingram-Johnson and Kevin Addison
Jean-Pierre Eckmann
Tom A. Kuusela

INSTRUCTIONAL LABORATORIES AND DEMONSTRATIONS

969 Photoelectric effect measurements on a conventional neon bulb

Jesús González-Laprea, L. J. Borrero-González, Kabir Sulca, Santiago Díaz-Echeverría and Carlos Alberto Durante Rincón

COMPUTATIONAL PHYSICS

975 Molecular dynamics simulation of synchronization of a driven particle

Tiare Guerrero and Danielle McDermott

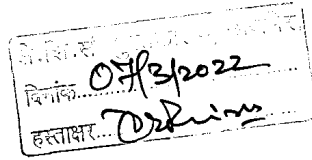
NOTES AND DISCUSSIONS

982 Gravity-driven fluid oscillations in a drinking straw: An alternative approach
984 Erratum: "Two and three particles interacting in a one-dimensional trap" [Am. J. Phys. 85, 769 (2017)]

Robert Frederik Diaz Uy
MengXing Na and Frank Marsiglio

American Journal of Physics Vol.89, No. 11 November, 2021

AMERICAN
JOURNAL
of PHYSICS



CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No. 11
November 2021

EDITORIAL

989 In this issue: November 2021

*Joseph Amato, Claire A. Marrache-
Kikuchi, Beth Parks and B. Cameron
Reed*

BACK OF THE ENVELOPE

991 Design-oriented analysis

Sanjoy Mahajan

PAPERS

993 The Newtonian gravity of irregular shapes using STL files and 3D printing

Eduardo Rossi

1002 The Hohmann transfer as an application for teaching introductory physics

A. M. Capece and J. L. Gazley

1009 An algebra and trigonometry-based proof of Kepler's first law

Akarsh Simha

1012 Dynamical symmetries behind Bertrand's theorem

Christian Carimalo

1018 Energy conservation strategies for electric vehicles on hills

François Schiettekatte

1026 The toppling of a uniform rectangular block Video Abstract Icon

Peter F. Hinrichsen

1033 Momentum conservation in the Biot-Savart law

Onuttom Narayan

1037 Kelvin's clouds

Oliver Passon

1042 "Everyone is new to this": Student reflections on different aspects of online learning

*Danny Doucette, Sonja Cwik and
Chandralekha Singh*

COMPUTATIONAL PHYSICS

1048 A gentle introduction to the non-equilibrium physics of trajectories: Theory, algorithms, and biomolecular applications

*Daniel M. Zuckerman and John D.
Russo*

BOOK REVIEWS

1062 Flashes of Creation: George Gamow, Fred Hoyle, and the Great Big Bang Debate

Neil F. Comins

1063 BOOKS RECEIVED

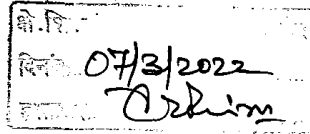
NOTES AND DISCUSSIONS

1064 Erratum: "Subtleties with Young's double-slit experiment: Investigation of spatial coherence and fringe visibility," [Am. J. Phys. 86, 683-689 (2018)]

*David P. Jackson, Natalie Ferris,
Ruthie Strauss, Hongyi Li and Brett J.
Pearson*

American Journal of Physics Vol.89, No. 12 December, 2021

AMERICAN
JOURNAL
of PHYSICS



CODEN: AJPIAS
ISSN: 0002-9505

Volume 89, No. 12
December 2021

EDITORIAL

1069 In this issue: December 2021

Tyler Engstrom, John Essick, Claire A. Marrache-Kikuchi, Beth Parks, B. Cameron Reed and Timothy D. Wisner

RESOURCE LETTERS

1071 Resource Letter BP-1: Biological physics

Raghuveer Parthasarathy

PAPERS

1079 Using smartphone photographs of the Moon to acquaint students with non-Euclidean geometry

Hugo Caerols, Rodrigo A. Carrasco and Felipe A. Asenjo

1086 Measuring the balance of the world's largest machine

William H. Baird

1094 On the ubiquity of classical harmonic oscillators and a universal equation for the natural frequency of a perturbed system

J. J. Bissell

1103 An exact solution for a particle in a velocity-dependent force field

Julio M. Yáñez, Gonzalo Gutiérrez, Felipe González-Cataldo and David Laroze

1113 Classical and quantum confocal parabolic billiards

Bárbara K. Villarreal-Zepeda, Héctor M. Iga-Buitrón and Julio C. Gutiérrez-Vega

1123 The harmonic quantum Szilárd engine

P. C. W. Davies, Logan Thomas and George Zahariade

1132 Single-, double-, and triple-slit diffraction of molecular matter waves

Christian Brand, Stephan Troyer, Christian Knobloch, Ori Cheshnovsky and Markus Arndt

ADVANCED TOPICS

1139 Williamson theorem in classical, quantum, and statistical physics

F. Nicacio

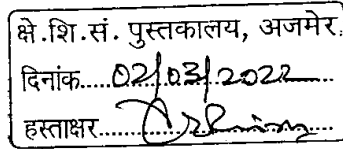
INSTRUCTIONAL LABORATORIES AND DEMONSTRATIONS

1152 Ultrafast optics with a mode-locked erbium fiber laser in the undergraduate Laboratory

Daniel Upcraft, Andrew Schaffer, Connor Fredrick, Daniel Mohr, Nathan Parks, Andrew Thomas, Ella Sievert, Austin Riedemann, Chad W. Hoyt and R. Jason Jones

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Ethics and Education Vol.16, No. 1 February, 2021



ETHICS AND EDUCATION
Volume 16 Number 1 February 2021



CONTENTS

Special Section: Exploring Cora Diamond's Significances for Education and Educators - Introduction

- 1 Introduction: exploring Cora Diamond's significances for education and educators
J. Frank and M. Laverty

Special Section: Exploring Cora Diamond's Significances for Education and Educators

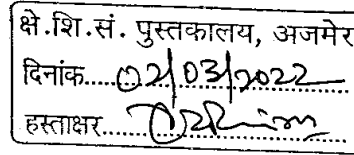
- 20 The adventure of responsive teaching: lessons from Cora and Julie Diamond
J. Frank
- 36 Understanding student mental health: difficulty, deflection and darkness
E. Farrell and Á. Mahon
- 51 Olmmái-Stállu: deflection, decolonization, and silence in Sámi early childhood scholarship
V. Johansson

REGULAR ARTICLES

- 74 Releasing education into the wild: an education in, and of, the outdoors
C. Skea and A. Fulford
- 91 'Equipping students with an ethical compass.' What does it mean, and what does it imply?
L. H. V. Stekelenburg, D. D. Ruyter and W. Sanderse
- 108 Teaching at the margin - Didaktik in the sphere of attention
J. Rytzler
- 122 The undercurrents of neoliberal ethics in science curricula: a critical appraisal
A. Sharma and E. M. Alvey

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Ethics and Education Vol.16, No. 2 May, 2021



ETHICS AND EDUCATION
Volume 16 Number 2 May 2021

 Routledge
Taylor & Francis Group

CONTENTS

Education, the environment and sustainability

INTRODUCTION

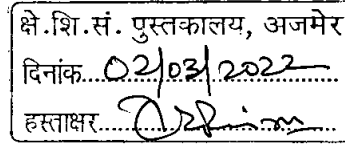
- 137 Introduction: education, the environment and sustainability
K. Horsthemke

ARTICLE

- 143 The task of education as we confront the potential for social and ecological collapse
V. D. O. Andreotti
- 159 'Landing on Earth:' an educational project for the present. A response to Vanessa Andreotti
S. Todd
- 164 Education, anthropocentrism, and interspecies sustainability: confronting institutional anxieties in omnicidal times
H. Pedersen
- 178 Animal advocacy, fear and loathing in academia: a response to Helena Pedersen
K. Horsthemke
- 182 Be the village: exploring the ethics of having children
D. Chang
- 196 Got milk? from growing strong bones to nurturing idealized subjectivities
S. Deane and A. Schultz
- 209 Psychoanalytic ecofeminist Dorothy Dinnerstein: theorizing the roots of rapacity
G. Bynum
- 222 Educating *in* and for *uncertainty*. climate science, human evolution and the legacy of Arne Naess as guidance for ecological practice
M. G.-Notario
- 236 Co-Creation in the Commonwealth: Understanding Right Relationship in Place
M. Beatham
- 249 Youth power—youth movements: myth, activism, and democracy
L. Stone
- 262 White, Green futures
C. Gilliam
- 276 Spiritual exercises in times of climate change
D. P. Gibboney

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Ethics and Education Vol.16, No. 3 August, 2021



ETHICS AND EDUCATION
Volume 16 Number 3 August 2021

 Routledge
Taylor & Francis Group

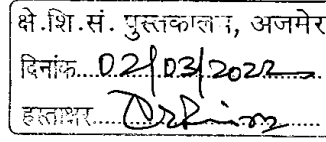
CONTENTS

ARTICLE

- 289 **The pervasiveness of the rational-conceptual: an educational-philosophical perspective on nature, world and 'sustainable development'**
K. Misawa
- 307 **'I see it as a privilege to get to know them'. Moral dimensions in teachers' work with unaccompanied refugee students in Swedish upper secondary school**
U. J. Wigg
- 321 **This child: descriptive review in support of parental ethics**
C. Furman
- 336 **Inflorescent dignity: a reconstructive interpretation of Martha Nussbaum's conception of dignity and its implications for education**
L. Mollvik
- 355 **Hospitality, asylum and education: around Emmanuel Levinas's Talmudic readings**
R. Włodarczyk
- 375 **Zero-compromise veganism**
J. Milburn
- 392 **A defence of parental compromise concerning veganism**
M. W. Hunt

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Ethics and Education Vol.16, No. 4 November, 2021



ETHICS AND EDUCATION
Volume 16 Number 4 November 2021

 **Routledge**
Taylor & Francis Group

CONTENTS

RESEARCH ARTICLE

- 407 **Should schools be in loco parentis? Cautionary thoughts**
J. F Goodman
- 424 **Encouraging moral outrage in education: a pedagogical goal for social justice or not?**
M. Zembylas
- 440 **Learning in the city and responding reactively**
M. Papastephanou
- 464 **On the Platonic pedagogical methodology: an alternative to the Aristotelian theory of education**
A. Kotsonis
- 478 **Literary study as an education in moral perception and imagination**
R. Collin
- 492 **'Wicked problems' as catalysts for learning in educational ethics games**
A. Nardo and M. Gaydos

हंस वर्ष 36 अंक 9, अप्रैल, 2022

संपादक
संजय सहाय
प्रबंध निदेशक
रचना यादव
कार्यालय व्यवस्थापक
वीना उनियाल
प्रसार एवं लेखा प्रबंधक
हारिस महमूद
शब्द-संयोजन
प्रेमचंद गौतम
कार्यालय सहायक
किशन कुमार, दुर्गा प्रसाद
मुख्य प्रतिनिधि (उ.प्र.)
राजेन्द्र प्रसाद जायसवाल
रेखाचित्र
संदीप राशिनकर

कार्यालय
अक्षर प्रकाशन प्रा. लि.
4229/1, अंसारी रोड, दरियागंज, नई दिल्ली-2
क्वाट्रसएप : 9717239112
दूरभाष : 011-41050047
ईमेल : editorhans@gmail.com
वेबसाइट : www.hanshindimagazine.in

मूल्य : 50 रुपए प्रति
वार्षिक : 500 रुपए (व्यक्तिगत)
रजिस्टर्ड : 800 रुपए
संस्था/पुरस्तकालय : 700 रुपए (संस्थागत)
रजिस्टर्ड : 1000 रुपए
आजीवन : 15,000 रुपए
विदेशों में : 80 डॉलर
सारे भुगतान मनीऑर्डर/चेक/बैंक ड्राफ्ट द्वारा
अक्षर प्रकाशन प्रा. लि. (Akshar Prakashan
Pvt. Ltd.) के नाम से किए जाएं.

हंस/अक्षर प्रकाशन प्रा.लि. से संबंधित सभी
विवादास्पद मामले केवल दिल्ली न्यायालय के अधीन
होंगे. अंक में प्रकाशित सामग्री के पुनर्प्रकाशन के
लिए लिखित अनुमति अनिवार्य है. हंस में प्रकाशित
रचनाओं में विचार लेखकों के अपने हैं. उनसे हंस
की सहमति अनिवार्य नहीं है. साथ ही उनके मौलिक
या अप्रकाशित होने का उत्तरदायित्व भी संपादक
और प्रकाशक का नहीं है.
प्रकाशक/मुद्रक : रचना यादव खन्ना द्वारा अक्षर
प्रकाशन प्रा. लि., 4229/1, अंसारी रोड, दरियागंज,
नई दिल्ली-110002 के लिए प्रकाशित एवं चार दिशाएं
प्रिंटर्स प्रा.लि., जी-39/40, सेक्टर-3, नोएडा-
201301 (उ.प्र.) से मुद्रित. संपादक-संजय सहाय.

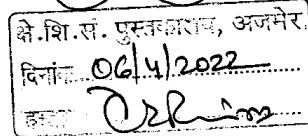
अप्रैल, 2022

मूल संस्थापक : प्रेमचंद : 1930
पुनर्संस्थापक : राजेन्द्र यादव : 1986

पूर्णांक-426 वर्ष : 36 अंक : 9 अप्रैल 2022



आवरण : दिनेश खन्ना



जनचेतना का प्रगतिशील कथा-मासिक

इस अंक में

संपादकीय

4. अभिव्यक्ति के आयाम : संजय सहाय

अपना मोर्चा

6. पत्र

साक्षात्कार

10. मेरे भीतर खाली कुछ नहीं... :
(गीतांजलि श्री से रवींद्र त्रिपाठी की बातचीत)

कहानियाँ

18. चारदीवारी : गोविंद उपाध्याय
24. गुलबी : कुमार विश्वबंधु
34. भोंपू : अंशु मालवीय
42. मेतेजर : राकेश बिहारी
51. बानो : फरज़ाना महदी
60. एक झोंका हवा का : सुकीरत सिंह आनंद
(पंजाबी कहानी) (अनुवाद : बलवंत कौर)

कविता

40. अनिल करमेले, किंशुक गुप्ता
41. प्रकाश देवकुलिश, एस.अतुल अंशुमाली

कथेतर

56. आत्म उद्घाटन और आत्म स्वीकार : पल्लव

लघुकथा

85. आनंद क्रांतिवर्धन, रिरिंदर सिंह गोगना

आराम नगर

68. मैथिली की पहली फिल्म कन्यादान :
अरविंद दास

गूज़ल

66-67. आलोक श्रीवास्तव

परख

72. स्त्री प्रश्नों की गंभीर पड़ताल :
गीता दूवे
76. नाट्यालोचना की खोज और स्थापना :
विजय पंडित
79. वर्ण-उत्पीड़न से आक्रांत एक सूत्र की
सभ्यता यात्रा : उर्मिलेश
83. वह अमेरिका जिसे हम नहीं जानते :
दिनेश श्रीनेत
86. यात्रा के बहाने आख्यान : प्रेम शशांक

शब्दवेधी/शब्दभेदी

88. युद्ध नहीं, शांति चाहिए :
तसलीमा नसरीन

सृजन-परिचय

90. आस्वाद की भीतरी और बाहरी यात्रा :
रश्मि रावत

रेतघड़ी

94-98

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

International Journal of Inclusive Education Vol.25, No. 9 July, 2021

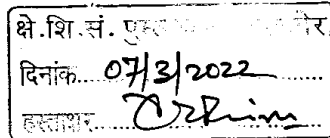
INTERNATIONAL JOURNAL OF INCLUSIVE EDUCATION

Volume 25, Issue 9 (2021)

CONTENTS

Articles

Students with intellectual and developmental disabilities in inclusive higher education: perceptions of stakeholders in a first-year experience <i>Robin Brewer & Sara Movahedazarhouli</i>	993
Barriers and facilitators of using augmentative and alternative communication with students with multiple disabilities in inclusive education: special education teachers' perspectives <i>Rashed Aldabas</i>	1010
Health service and school: new interactions. Comparison between the Italian system and the Swedish system on the diagnostic process of pupils <i>Antonio Iudici, Mathilda Tassinari Rogalin & Gianpiero Turchi</i>	1027
Supporting the inclusion of low-income families in early childhood education: an exploration of approaches through a social justice lens <i>Marianne Fenech & Jennifer Skattebol</i>	1042
Parental satisfaction with inclusion in physical education <i>Terese Wilhelmsen, M. S. Sørensen, Ø. Seippel & M. E. Block</i>	1061
The impact of teacher training in special education on the implementation of inclusion in mainstream classrooms <i>Orly Crispel & Ronen Kasperski</i>	1079
Exploring student teachers' professional vision of inclusive classrooms in primary education <i>Karolien Keppens, Els Consuegra & Ruben Vanderlinde</i>	1091



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

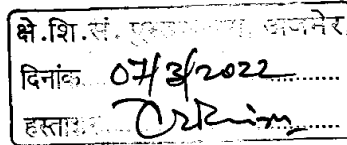
International Journal of Inclusive Education Vol.25, No. 10 August, 2021

INTERNATIONAL JOURNAL OF INCLUSIVE EDUCATION
Volume 25, Issue 10 (2021)

CONTENTS

Articles

Inclusive education reform in Kazakhstan: civil society activism from the bottom-up <i>Kamila Rollan & Michelle Somerton</i>	1109
The journey into motherhood and schooling: narratives of teenage mothers in the South African context <i>Jaqueline Naidoo, Nithi Muthukrishna & Rosemary Nkabinde</i>	1125
Teacher strategies for promoting acceptance and belonging in the classroom: a New Zealand study <i>Julie Alesech & Shoba Nayar</i>	1140
Mapping the evidence-based research on Ghana's inclusive education to policy and practices: a scoping review <i>Maxwell Peprah Opoku, Christopher S. Rayner, Scott J. Pedersen & Monica Cuskelly</i>	1157
Strengthening inter-cultural literacy and minority voices through narratives of healthy religious pluralism in higher education <i>Angela Daddow, Darren Cronshaw, Newton Daddow & Ruth Sandy</i>	1174
Being included - experiences of social participation of pupils with special education needs in mainstream schools <i>Jukka Vetoniemi & Eija Kärmä</i>	1190
Educational inclusion and belonging: a conceptual analysis and implications for practice <i>Velibor Bobo Kovač & Birgit Lene Vaala</i>	1205



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

International Journal of Inclusive Education Vol.25, No. 11 September, 2021

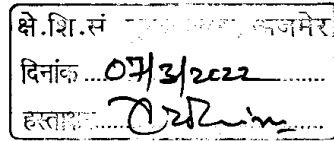
INTERNATIONAL JOURNAL OF INCLUSIVE EDUCATION

Volume 25, Issue 11 (2021)

CONTENTS

Articles

- Fostering inclusion in school through creative and body-based learning
Robyne Garrett & Belinda MacGill 1221
- Disadvantaged families' experiences of home-school partnerships: navigating agency, expectations and stigma
Anne Graham, J. Truscott, C. O'Byrne, G. Considine, A. Hampshire, S. Creagh & M. Western 1236
- Inclusion of a child with expressive language difficulties in a mainstream Australian preschool – roundabout ways can create opportunities for participation
Fatema Taj Johora, Marilyn Flear & Nikolai Veresov 1252
- The impact of Project Based Learning (PBL) on students from low socio economic statuses: a review
Grace Leggett & Ingrid Harrington 1270
- University preparation and the work capabilities of visually impaired graduates in Ghana: a tracer study
Lois Odame, Bertha Osei-Hwedie, William Nketsia, Maxwell Peprah Opoku & Betty Nanor Arthur 1287
- Tele-classroom consultation: promoting an inclusive approach to supporting the needs of educators, families and early years learners on the autism spectrum in rural and remote areas in contextually responsive ways
Beth Siggers, Megan Tones, Jacqueline Dunne & Rachel Aberdeen 1305



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

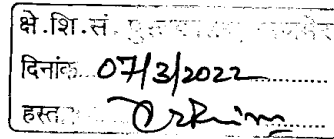
International Journal of Inclusive Education Vol.25, No. 12 October, 2021

INTERNATIONAL JOURNAL OF INCLUSIVE EDUCATION
Volume 25, Issue 12 (2021)

CONTENTS

Articles

South Korean elementary school teachers' experiences of inclusive education concerning students with a multicultural background <i>Soo-Kyung Kim & Shu-Nu Chang Rundgren</i>	1327
Fairies on the schoolyard: curriculum as inclusive conversation <i>Cara Furman</i>	1342
Disclosing accommodation needs: exploring experiences of higher education students with disabilities <i>Sara A. Smith, Erin Woodhead & Christina Chin-Newman</i>	1358
Making space in higher education: disability, digital technology, and the inclusive prospect of digital collaborative making <i>Stephen Fernandez</i>	1375
Academic achievement of diverse K-12 students in inclusive three-block model classrooms <i>Jennifer Katz, Laura Sokal & Amery Wu</i>	1391
Caught in the frontline: examining the introduction of a new national data collection system for students with disability in Australia <i>J. Gallagher & N. Spina</i>	1410
Understanding inclusion in teacher education – a view from student teachers in England <i>Jane Essex, Nafsika Alexiadou & Paula Zwozdiak-Myers</i>	1425



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

International Journal of Inclusive Education Vol.25, No. 13 November, 2021

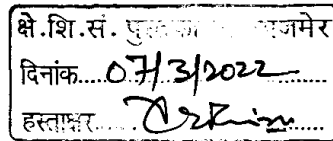
INTERNATIONAL JOURNAL OF INCLUSIVE EDUCATION

Volume 25, Issue 13 (2021)

CONTENTS

Articles

- Using the Index for Inclusion to measure attitudes and perceptions of inclusion in teacher and school building leader candidates in the USA and Austria
Maria-Luise Braunsteiner & Susan Mariano-Lapidus..... 1443
- Where are they now? Flexi school graduates reflect on their experiences of alternative education
Annabel Moffatt & Stewart Riddle..... 1463
- Students' voices: reflections of three young adults with cerebral palsy on factors facilitating their completion of mainstream schooling in South Africa
Rosemary Luger, Martha Geiger & Marcia Lyner-Cleophas..... 1475
- Staff perspectives on victimisation in multi-ethnic Chilean elementary schools
Andrew Webb..... 1492
- Constraints to the implementation of inclusive teaching: a cultural historical activity theory approach
Douglas Andrews, Elizabeth Walton & Ruksana Osman..... 1508
- Facing social reality together: investigating a pre-service teacher preparation programme on inclusive education
Ellen Vandervooren & Elke Struyf..... 1524
- Review
- Supporting the enactment of inclusive pedagogy in a primary school
Aoife Brennan, Fiona King & Joe Travers..... 1540



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

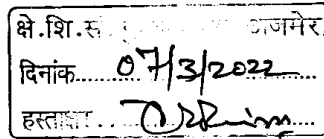
International Journal of Inclusive Education Vol.25, No. 14 December, 2021

INTERNATIONAL JOURNAL OF INCLUSIVE EDUCATION
Volume 25, Issue 14 (2021)

CONTENTS

Articles

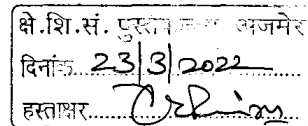
How pedagogical diversity can afford parallaxes of competence: towards more inherently inclusive school <i>Roxanne Finn</i>	1559
Teaching disability: strategies for the reconstitution of disability knowledge <i>Karim Del Rocío Garzón Díaz & Dan Goodley</i>	1577
An empirical case study of young adult carers' engagement and success in higher education <i>Chantelle Day</i>	1597



Journals of Computer Assisted Learning

Volume 37, Issue 5, October 2021

Contents



REVIEW ARTICLES

Artificial intelligence in educational assessment: 'Breakthrough? Or buncombe and ballyhoo?'
J. Gardner, M. O'Leary and L. Yuan 1207

Digital self-control interventions for distracting media multitasking - A systematic review
D. Biedermann, J. Schneider and H. Drachslar 1217

ARTICLES

Exploring latent states of problem-solving competence using hidden Markov model on process data
Y. Xiao, Q. He, B. Veldkamp and H. Liu 1232

Seductive details do their damage also in longer learning sessions – When the details are perceived as relevant
L. Bender, A. Renkl and A. Eitel 1248

Platform is not destiny: Embodied learning effects comparing 2D desktop to 3D virtual reality STEM experiences
M. C. Johnson-Glenberg, H. Bartolomea and E. Kalina 1263

Online engagement during COVID-19: Role of agency on collaborative learning orientation and learning expectations
N. M. Almusharraf and D. Bailey 1285

Comparing learning ecologies of primary graphical programming: create or fix?
T. Neutens, E. Barbion, K. Coolsaet and F. wyffels 1296

Learning about a serious disease: When a personalized message is harmful unless you are happy
T. Köhl and S. Münzer 1312

ProVoc: An app to train vocabulary depth in order to foster children's reading comprehension
A. Potocki, M. Chailleux, M. Gimenes and J. Pylouster 1324

The impact of adaptive computer assisted instruction on reading comprehension: Identifying the main idea
S. Toonder and L. B. Sawyer 1336

Can video games change attitudes towards history? Results from a laboratory experiment measuring short- and long-term effects
L. Kolek, V. Šisler, P. Martinková and C. Brom 1348

Customization in educational computer games and its effect on learning: Experimental study with primary school children
O. Javora, F. Děchtěrenko, T. Tetourová, K. Volná and C. Brom 1370

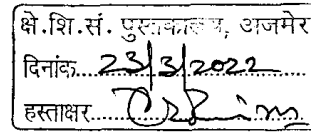
LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Computer Assisted Learning Vol.37, No. 5 October, 2021

Students and instructors perspective on blended synchronous learning in a Canadian graduate program S. Lakhali, J. Mukamurera, Marie-Eve Bédard, G. Heilporn and M. Chauret	1383
Evaluating the effectiveness of blended learning using the ARCS model L. Ma and C. S. Lee	1397
Students' abilities to evaluate the credibility of online texts: The role of internet-specific epistemic justifications E. K. Hämäläinen, C. Kiili, E. Räikkönen and M. Marttunen	1409
The development and construction of an AR-guided learning model with focused learning theories: AR-guided learning model Chih-Hsiang Hu, N. E. Barrett and Gi-Zen Liu	1423
Smart mechanisms and their influence on geometry learning of elementary school students in authentic contexts Wu-Yuin Hwang, A. Hoang and Ya-Hsuan Lin	1441
A systematic review of empirical research on learning with 3D printing technology E. Novak, M. Brannon, M. R. Librea-Carden and A. L. Haas	1455
The Community of Inquiry perspective on students' social presence, cognitive presence, and academic performance in online project-based learning P. Guo, N. Saab, L. Wu and W. Admiraal	1479
Implementing an automated feedback program for a foreign language writing course: A learner-centric study: Implementing an AWE tool in a L2 class M. Hassanzadeh and S. Fotoohnejad	1494

Journals of Computer Assisted Learning

Volume 37, Issue 6, December 2021



Contents

EDITORIAL

- Adoption of learning technologies in times of pandemic crisis
H. Drachsler, J. Jansen, P. A. Kirschner 1509

SPECIAL ISSUE ARTICLES

- Investigating the mediating role of online learning motivation in the COVID-19 pandemic situation in Bangladesh
Md. H A. Rahman, M. S. Uddin and A. Dey 1513
- Discrepancy between language learners and teachers concerns about emergency remote teaching
A. Al Shlowiy, A. H. Al-Hoorie and M. Alharbi 1528
- Distance education amid a pandemic: Which psycho-demographic variables affect students in higher education?
İ. Göksu, N. Ergün, Z. Özkan and H. Sakız 1539
- Comparing technology acceptance of K-12 teachers with and without prior experience of learning management systems: A Covid-19 pandemic study
M. Dindar, A. Suorsa, J. Hermes, P. Karppinen and P. Näykki 1553
- Promoting the integration of technology in teaching: An analysis of the factors that increase the intention to use technologies among Italian teachers
L. Menabò, A. Sansavini, A. Brighi, G. Skrzypiec and A. Guarini 1566
- Factors impacting university students' online learning experiences during the COVID-19 epidemic
Chien-Y. Su and Y. Guo 1578
- The pandemic semesters: Examining public opinion regarding online learning amidst COVID-19
A. O. Asare, R. Yap, N. Truong and E. O. Sarpong 1591
- Enhancing distance learning of science—Impacts of remote labs 2.0 on students' behavioural and cognitive engagement
S. H. Sung, C. Li, X. Huang and C. Xie 1606
- Where's the germs? The effects of using virtual reality on nursing students' hospital infection prevention during the COVID-19 pandemic
Y. Liu and A. Butzlaff 1622
- Changes in activity and content of messages of an Estonian Facebook group during transition to distance learning at the beginning of the COVID-19 pandemic
P. Luik and M. Lepp 1629
- Enhancing learning engagement during COVID-19 pandemic: Self-efficacy in time management, technology use, and online learning environments
H. Heo, C. J. Bonk and M. Y. Doo 1640

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

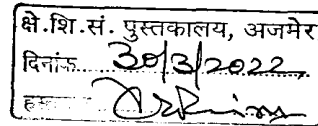
Journal of Computer Assisted Learning Vol.37, No. 6 December, 2021

Tracing changes in teachers' professional learning network on Twitter: Comparison of teachers' social network structure and content of interaction before and during the COVID-19 pandemic E. Alwafi	1653
Distance learning perceptions during the coronavirus outbreak: Freshmen versus more advanced students O. Baruth, H. Gabbay, A. Cohen, A. Bronshtein and O. Ezra	1666
Higher education students' experiences and opinion about distance learning during the Covid-19 pandemic A. Stevanović, R. Božić and S. Radović	1682
Virtual academic conferences as learning spaces: Factors associated with the perceived value of purely virtual conferences N. Seidenberg, M. Scheffel, V. Kovanovic, G. Lynch and H. Drachsler	1694

Journals of Computer Assisted Learning

Volume 38, Issue 1, February 2022

Contents



ARTICLES

- A review of the meta-analysis by Tingir and colleagues (2017) on the effects of mobile devices on learning
S. Bissonnette and C. Boyer 1
- Virtual reality application influences cognitive load-mediated creativity components and creative performance in engineering design
Y.-C. Chen, Y.-S. Chang and M.-J. Chuang 6
- Instructing students on effective sequences of examples and problems: Does self-regulated learning improve from knowing what works and why?
M. van Harsel, V. Hoogerheide, P. Verkoeyen and T. van Gog 19
- Exploring students' cognitive and affective states during problem solving through multimodal data: Lessons learned from a programming activity
K. Mangaroska, K. Sharma, D. Gašević and M. Giannakos 40
- Exploring age and gender differences of computational thinkers in primary school: A developmental perspective
S. Jiang and G. K. W. Wong 60
- Assessing the effectiveness of a game-based phonics intervention for first and second grade English language learners in India: A randomized controlled trial
P. Patel, M. Torppa, M. Aro, U. Richardson and H. Lyytinen 76
- The supporting role of learning analytics for a blended learning environment: Exploring students' perceptions and the impact on relatedness
E. Ameloot, T. Rotsaert and T. Schellens 90
- REVIEW ARTICLE**
- Understanding embodied immersion in technology-enabled embodied learning environments
X. Xu, J. Kang and L. Yan 103
- ARTICLES**
- Investigating the redundancy principle in immersive virtual reality environments: An eye-tracking and EEG study
S. Baceviciute, G. Lucas, T. Terkildsen and G. Makransky 120
- Improving mobile learning in secondary mathematics and science: Listening to students
P. F. Burke, M. Kearney, S. Schuck and P. Aubusson 137
- MOOC learners' time-investment patterns and temporal-learning characteristics
S. Li, S. Wang, J. Du, Y. Pei and X. Shen 152

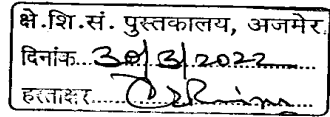
LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Computer Assisted Learning Vol.38, No. 1 February, 2022

Is the human movement effect stable over time? The effects of presentation format on acquisition and retention of a motor skill C. H'mida, S. Kalyuga, N. Souissi, G. Rekik, M. Jarraya and A. Khacharem	167
Responsiveness to a game-based intervention to enhance reading efficiency in first graders A. van Uittert, L. Verhoeven and E. Segers	178
Promoting student engagement in online collaborative writing through a student-facing social learning analytics tool S. Chen, F. Ouyang and P. Jiao	192
Using a distributed systems laboratory to facilitate students' cognitive, metacognitive and critical thinking strategy use J. M. M. Puig, T. Daradoumis, M. Arguedas and L. C. Liñan	209
Effects of new coopetition designs on learning performance in robotics education B. Zhong and L. Xia	223
Chatbots for language learning—Are they really useful? A systematic review of chatbot-supported language learning W. Huang, K. F. Hew and L. K. Fryer	237
A meta-analysis on the effects of technology's functions and roles on students' mathematics achievement in K-12 classrooms H. Ran, N. J. Kim and W. G. Secada	258
The impact of augmented reality on cognitive load and performance: A systematic review J. Buchner, K. Buntins and M. Kerres	285
Effects of digital games on student motivation in mathematics: A meta-analysis in K-12 D. Fadda, M. Pellegrini, G. Vivanet and C. Z. Callegher	304

Journals of Computer Assisted Learning

Volume 38, Issue 2, April 2022



Contents

ARTICLES

- Let me explain! The effects of writing and reading short justifications on students' performance, confidence and opinions in audience response systems
P. M. Papadopoulos, N. Obwegeser and A. Weinberger 327
- Understanding the experiences of teacher candidates related to online flipped learning in relation to Community of Inquiry framework
M. Özüdođru 338
- Expert examples and prompted reflection in learning with self-generated concept maps
E. H. Eshuis, J. ter Vrugte, A. Anjewierden and T. de Jong 350
- Compensating the socioeconomic achievement gap with computer-assisted instruction
J. Chevalère, L. Cazenave, M. Berthon, R. Martinez, V. Mazenod, M.-C. Borion, D. Pailler, N. Rocher, R. Cadet, C. Lenne, N. M.-Pino and P. Huguet 366
- I see something you do not: Eye movement modelling examples do not improve anomaly detection in interpreting medical images
T. F. Eder, K. Scheiter, J. Richter, C. Keutel and F. Hüttig 379
- Exploring behavioural patterns of virtual manipulatives supported collaborative inquiry learning: Effect of device-student ratios and external scripts
C. Wang, L. Xu and H. Liu 392
- Assessing fidelity of implementation to a technology-mediated early intervention using process data
N. P. Helsabeck, L. M. Justice and J. A. R. Logan 409
- Effects of performance goal orientations on learning performance and in-game performance in digital game-based learning
J. C. Yang, C.-J. Chung and M.-S. Chen 422
- Text-to-speech applications to reduce mind wandering in students with dyslexia
P. Bonifacci, E. Colombini, M. Marzocchi, V. Tobia and L. Desideri 440
- The impact of functional interdependencies of computer simulations on collaborative learning: Evidence from multiple sources
C.-C. Liu, T.-W. Lin, C.-H. Cheng, C.-T. Wen, M.-H. Chang, S.-H. F. Chiang, M.-J. Tsai, H.-M. Lin and F.-K. Hwang 455
- Investigating the value of immersive virtual reality tools for organizational training: An applied international study in the biotech industry
S. Baceviciute, A. L. Cordoba, P. Wismer, T. V. Jensen, M. Klausen and G. Makransky 470
- Learning to eRead: A qualitative exploration of young children's developing eReader practices
K. L. Schmitt, L. B. Hurwitz and D. Nichols 488

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Computer Assisted Learning Vol.38, No. 2 April, 2022

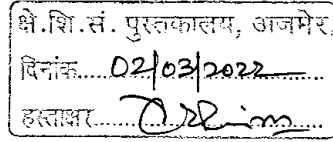
The effect of an artificial agent's vocal expressiveness on immediacy and learning S. Fountoukidou, U. Matzat, J. Ham and C. Midden	500
Understanding topic duration in Twitter learning communities using data mining O. Arslan, W. Xing, F. A. Inan and H. Du	513
REVIEWS	
Meta-analysis examining the effects of electronic storybooks on language and literacy outcomes for children in grades Pre-K to grade 2 M. Savva, S. Higgins and N. Beckmann	526
Effect sizes and research directions of technology application in museum learning: Evidence obtained by integrating meta-analysis with co-citation network analysis W. Xu, T. Dai and Z. Shen	565
A systematic review of eye-tracking-based research on animated multimedia learning A. Coskun and K. Cagiltay	581
Effectiveness of automated writing evaluation systems in school settings: A systematic review of studies from 2000 to 2020 A. Nunes, C. Cordeiro, T. Limpo and S. L. Castro	599

Contents

Articles

- Nationalist Thought in Modern India: Exploration of the Idea of Freedom
Prakash Desai 99
- Leadership Effectiveness and Psychological Well-being: The Role of
Workplace Spirituality 109
S. Riasudeen and Pankaj Singh
- Burnout Among Primary Government School Teachers: The Mediating Role
of Work–Family Conflict 126
Arjun Chakravorty and Pankaj Singh
- Post-materialism’s Social Class Divide: Experiences and Life Satisfaction 141
Douglas E. Booth
- Personality and Value Preference as Predictors of Social Well-being 161
Dharmendra Nath Tiwari and Girishwar Misra
- Reinventing the Universal Structure of Human Values: Development
of a New Holistic Values Scale to Measure Indian Values 175
Rajat Sharma

Journal of Human Values Vol.28, No. 1 January, 2022



Volume 28 Number 1 January 2022

Journal of Human Values

Special Issue: Education, Good Life, and Good Society in Twenty-First Century Global South
Guest Editors: Vikas Maniar and Manoj Kumar

Contents

Editorial

Education and Good Life in Twenty-first Century Global South 7

Articles

What is *Good*? A Study of Educational Insights in *Nicomachean Ethics*
(Book I, II and III) 11
Abhijeet Bardapurkar

Pedagogy and Diversity: Difference or Deficit 20
Padma M. Sarangapani

Rethinking Education and Livelihoods in India 29
Tanuka Endow and Balwant Singh Mehta

Nai Talim Today: Gandhi's Critique of Industrialism and An Education for *Swaraj* 44
Pallavi Varma Patil and Sujit Sinha

Between Criticality and Conformism: Citizenship and Education in
Post-independent India 57
Avinash Kumar

Review Essay

A Critical Appraisal of Aims-Based Curriculum from a Global South Perspective 70
Asim Siddiqui

Journal of Moral Education

VOLUME 50 NUMBER 1 MARCH 2021



Future Directions for Moral Education, on the 50th Anniversary of the Journal of Moral Education

Introduction

Chaos or coherence? Future directions for moral education
James C. Conroy 1

Research Article

Morality, complexity and relationships
John Alderdice 13

The legacies of 1945: The evolutions of European civic morality
Martin Conway 21

Narrative and truth in a world of alternative facts: The moral challenge for education
Molly Andrews 32

The three gifts of teaching: Towards a non-ecological future for moral education
Gert Biesta 39

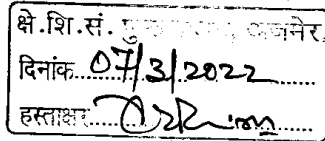
Moral education in a time of human ecological devastation
Darcia Narvaez 55

Robots as persons? Implications for moral education
Michael J. Reiss 68

Moral sciences and the role of education
Tobias Krettenauer 77

Critical perspectivism: Educating for a moral response to media
Laura D'Olimpio 92

Moral education and the challenge of pre-service professional formation for teachers
Janet Orchard 104



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Moral Education Vol.50, No. 2 June, 2021

Journal of Moral Education

VOLUME 50 NUMBER 2 JUNE 2021



CONTENTS

Editorial

Awaiting the Owl of Minerva: Some thoughts on the present and future of moral education
Kristján Kristjánsson 115

Research Article

R. S. Peters' philosophy of moral education in relation to his Freudian psychology
Stefaan E. Cuypers 122

Original Articles

Moral reasoning in peer conversations during game-based learning: An exploratory study
Robyn Iken-Gee and Lacey J. Hilliard 140

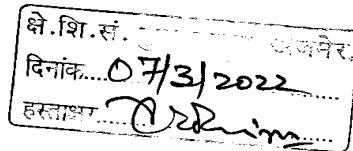
Links between moral identity and political purpose during emerging adulthood
Hyemin Han, Parissa Jahromi Ballard and Youn-Jeng Choi 166

Integrating Thomistic virtue ethics with an Eriksonian identity perspective: A new moral identity assessment
Tonia Bock, Heidi Giebel, Taylor Hazelbaker and Logan Tufte 185

Hostility and civic moral disengagement: Cognitive reappraisal and expressive suppression as moderators
Alexandra Maftei, Cristina-Maria Bostan and Daniela-Victoria Zaharia 202

Empathy and moral education, Theatre of the Oppressed, and The *Laramie Project*
Andrew J. Corsa 219

'Who said we play to hit each other?' Early childhood teachers' responses to children's transgressions
Andrea Bustamante, Carolina Maldonado-Carreño, Olga Lucía González, María Angélica Navia, Eliana Carolina Restrepo and Diana Fernanda Torres 233



Journal of Moral Education

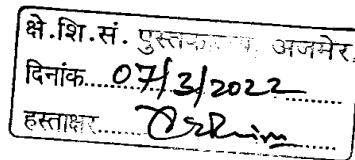
 **Routledge**
Taylor & Francis Group

VOLUME 50 NUMBER 3 SEPTEMBER 2021

CONTENTS

Original Article

- Unique ethical challenges for the 21st century: Online technology and virtue education
Matthew Dennis and Tom Harrison 251
- Adaptation and validation of a test of ethical sensitivity in teaching
Bruce Maxwell, Helen Boon, Nicolas Tanchuk and Bryan Rauwerda 267
- Profiles of adolescent character attributes: Associations with intentional self-regulation and character role model relationships
Jacqueline V. Lerner, Caitlin Aymong Wong, Michelle B. Weiner and Sara K. Johnson 293
- Why should intimate partner violence prevention be integrated in sex education?
Maria Moulin-Stozek 317
- When do caregivers begin to view their child as a moral agent? Comparing moral and non-moral reactions to young children's moral transgressions
Samuel Essler and Markus Paulus 330
- When mom is wrong: Preschoolers place increasing limits on parental authority with age
Ava R. Alexander and Samuel P. Putnam 343
- Mindfulness and morality: Educational insights from Confucius
Charlene Tan 356
- Beyond asking 'should' and 'why' questions: Contextualised questioning techniques for moral discussions in moral education classes
Mei-Yee Wong 368
- The effect of the Dizi Gui intervention on peer relationships and teacher-student relationships--The mediating role of prosocial behavior
Zhuojun Yao and Lai Wong 384



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Moral Education Vol.50, No. 4 December, 2021

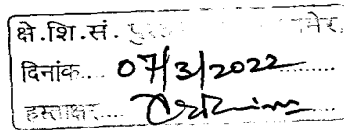
Journal of Moral Education
VOLUME 50 NUMBER 4 DECEMBER 2021

 **Routledge**
Taylor & Francis Group

CONTENTS

Research Article

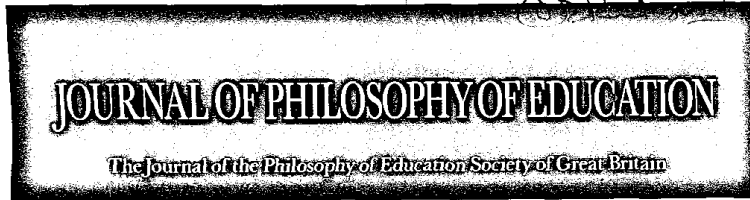
The case of common humanity: Towards a deeper understanding of children's social ideas <i>Anna L. Kirby and Paul L. Harris</i>	401
The links between religiousness and prosocial behaviors in early adulthood: The mediating roles of media exposure p and empathic tendencies <i>Youngsook Han and Gustavo Carlo</i>	419
Students' perceptions and evaluations of plagiarism: Effects of text and context <i>Talia Waltzer and Audun Dahl</i>	436
Promising pathways from school restorative practices to educational equity <i>John A. Gomez, Christina L. Rucinski and Ann Higgins-D'Alessandro</i>	452
Complexity in restorative justice education circles: Power and privilege in voicing perspectives about sexual health, identities, and relationships <i>Christina Parker and Kathy Bickmore</i>	471
Moral evaluations of modest statements in light of maternal disciplinary method and cultures <i>Atiyeh Shohoudi Mojdehi, Azadeh Shohoudi and Victoria Talwar</i>	494
Exploring the issue of a lack of cohesion in moral education: An empirical study in Chinese primary and secondary schools <i>Yan Huo and Jin Xie</i>	512
Moral education in mainland China today: A bio-ecological systems analysis <i>Chao Yang</i>	529



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Philosophy Education Vol.55, No. 4-5 August-October, 2021

क्षे.शि.सं. पुस्तकालय, अजमेर.
दिनांक... 02/03/2022



Volume 55 Issue 4-5 August-October 2021

Contents

EDITORIAL Editorial <i>Emma Williams</i>	549
ORIGINAL ARTICLES Conflict and moral change: LGBTQ+ rights education, religion and renegotiation <i>Nora Hämäläinen</i>	551
Schools as social spaces: Towards an Arendtian consideration of multicultural education <i>Rowena Azada-Palacios</i>	564
The unproductiveness of political conflict in education: A Nussbaumian alternative to agonistic citizenship education <i>Anniina Leiviskä and Iida Pyy</i>	577
Is (it) time to leave eternity behind? Rethinking Bildung's implicit temporality <i>Kjetil Horn Hogstad</i>	589
<i>Embedded rationality and the contextualisation of critical thinking</i> <i>James McGuirk</i>	606
TEACHING UNDER COVID-19 <i>Après le déluge: Teaching and learning in the age of COVID</i> <i>David Bakhurst</i>	621
Unprepared humanities: A pedagogy (forced) online <i>Houman Harouni</i>	633
On facing one's students: The relevance of Emmanuel Levinas to teaching in times of Covid-19 <i>Martine Berenpas</i>	649
ORIGINAL ARTICLES Enacting small justices: Education, place and subjectivity in the Anthropocene <i>Frans Kruger</i>	665
Intrinsic value and educational value <i>Jane Gatlley</i>	675
Trust between teacher and student in academic education at school <i>Monika Platz</i>	688
The flourishing child <i>Lynne Wolbert, Doret de Ruyter and Anders Schinkel</i>	698

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Philosophy Education Vol.55, No. 4-5 August-October, 2021

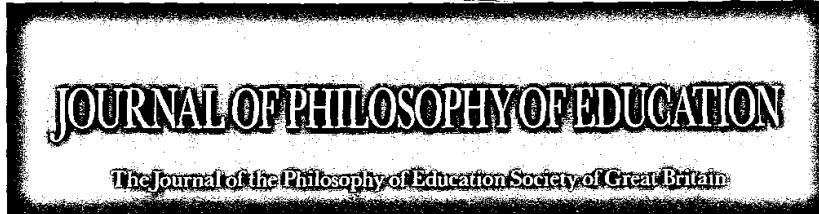
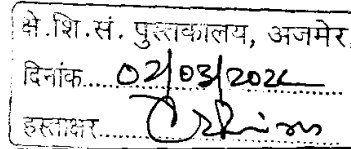
ON THE ROAD WITH RENÉ ARCILLA AND WIM WENDERS: LIBERAL EDUCATION, DESTINY, AND THE CINEMATIC IMAGINATION Ways of seeing: Materiality and grace in <i>Wim Wenders's Road Movie Philosophy</i> by René Arcilla: Introduction to the suite of papers <i>Rachel Wahl</i>	710
Liberal-arts learning between school and the road <i>René V. Arcilla</i>	714
Seeing the appearing world: René Arcilla's pedagogy of availability <i>Rachel Wahl</i>	721
The hermeneutic straightaway <i>Chris Higgins</i>	734
'Somewhere without language': Reflections on a road movie education <i>Alexis Gibbs</i>	740
Liberal education, beautiful knowledge and René V. Arcilla's <i>Wim Wenders's Road Movie Philosophy</i> <i>Naoko Saito</i>	747
A kind of road: The eye and the gaze in <i>Wim Wenders's Paris, Texas</i> <i>Anna Pagès</i>	754
Something sacred to our culture: René Arcilla's liberal education <i>Paul Standish</i>	764
Response to commentators on <i>Wim Wenders's Road Movie Philosophy: Education Without Learning</i> <i>René V. Arcilla</i>	776
ORIGINAL ARTICLES	
Human kinds in education: An outline of a two-pronged research project <i>Ilya Zrudlo</i>	782
Explicating and framing Dewantara's conduct pragmatism as a pragmatist philosophy of education <i>Setiono Sugiharto</i>	793
Literature unbound: William Desmond's <i>metaxu</i> and the opening of literary hermeneutics <i>Phillip E. Mitchell</i>	807
Education as a common good from the capability approach <i>Javier Gracia-Calandín and Isabel Tamarit-López</i>	817
INTERVIEW	
Science denial, post-truth and our new dark age: Lee McIntyre interviewed by Richard Marshall <i>Richard Marshall and Lee McIntyre</i>	829
ORIGINAL ARTICLES	
Getting the grain: The teaching of two poems reconsidered <i>Soyoung Lee</i>	837
Thinking and learning in the philosophy of Gilles Deleuze <i>Yannis Chatzantonis</i>	852
Voices of the establishment or of cultural subversion? The Western canon in the curriculum <i>Kevin Williams</i>	864

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Philosophy Education Vol.55, No. 4-5 August-October, 2021

<i>Die Überkinder: Nietzsche and Greta Thunberg, children and philosophy</i> <i>Charles C. Verharen</i>	878
<i>Reconsidering time in schools: An everyday aesthetics perspective</i> <i>Guillermo Marini and Juan David Rodríguez Merchán</i>	893

Journal of Philosophy Education Vol.55, No. 6 December, 2021



Volume 55 Issue 6 December 2021

Special Issue

Kant on Education and Improvement

Edited by Martin Sticker & David Bakhurst

Contents

EDITORIAL

Preface
Paul Standish 907

ORIGINAL ARTICLES

Kant on education and improvement: Themes and problems
Martin Sticker and David Bakhurst 909

Kant on wonder as the motive to learn
Melissa Zinkin 921

Reflection and synthesis: How moral agents learn and moral cultures evolve
Joanna Burch-Brown 935

Kant on thinking for oneself and with others—the ethical a priori, openness and diversity
Martin Sticker 949

On trying too hard: A Kantian interpretation of misguided moral striving
Mavis Biss 966

Kant on revolution as a sign of moral progress
Sacha Golob 977

Kant's moral catechism revisited
Courtney Morris 990

Kant, casuistry and casuistical questions
Rudolf Schuessler 1003

A Kantian approach to education for moral sensitivity
Paul Formosa 1017

Human nature, reason and morality
David Bakhurst 1029

Kantian moral education for the future of humanity: The climate change challenge
Ewa Wyrębska-Đermanović 1045

Shadow students in Georgia: A Kantian condemnation
Melissa Seymour Fahmy 1057

Kant's doctrine of education and the problem of artificial intelligence
Leonid Kornilae 1072

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Philosophy Education Vol.55, No. 6 December, 2021

Towards a Kantian theory of philosophical education and wisdom: With the help of Hannah Arendt <i>Helga Varden</i>	1081
Discipline and the cultivation of autonomy in Immanuel Kant and Maria Montessori <i>Patrick R. Frierson</i>	1097
Sociability and education in Kant and Hessen <i>Mikhail Zagirnyak</i>	1112
The Kantian origins of Sergei Rubinstein's theory of moral improvement <i>Nina A. Dmitrieva</i>	1126
Batteux, Kant and Schiller on fine art and moral education <i>Aviv Reiter and Ido Geiger</i>	1142

Journal of Research in Science Teaching Vol.58, No. 6 August, 2021

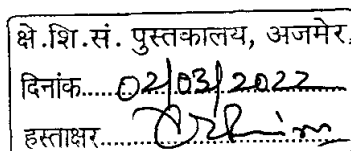
Journal of Research in Science Teaching

Volume 58, Issue 6, August 2021

CONTENTS

Research Articles

- Engaging the hands, heads, and hearts in a medical simulation informal learning environment:
Tali Tal and Sameer Dallashe 759
Published online 10 December 2020 in Wiley Online Library
- Content knowledge and social factors influence student moral reasoning about CRISPR/Cas9 in humans: *Katie M. Seiter and Linda Fuselier* 790
Published online 16 January 2021 in Wiley Online Library
- Predicting academic and career choice: The role of transformative experience, connection to instructor, and gender accounting for interest/identity and contextual factors: *Kevin J. Pugh, Sue Hyeon Paek, Michael M. Phillips, Julie M. Sexton, Cassandra M. Bergstrom, Selani D. Flores, and Eric M. Riggs* 822
Published online 2 February 2021 in Wiley Online Library
- Development of a questionnaire for assessing Spanish-speaking students' understanding of the nature of models and their uses in science: *José M. Oliva and Angel Blanco-López* 852
Published online 1 February 2021 in Wiley Online Library
- Supporting Black women's pursuits in STEM: *Thai-Huy Nguyen, Marybeth Gasman, Amanda Washington Lockett, and Vanessa Peña* 879
Published online 11 February 2021 in Wiley Online Library
- Examining student environmental science agency across school science contexts: *Emily M. Harris and Heidi L. Ballard* 906
Published online 26 March 2021 in Wiley Online Library



Journal of Research in Science Teaching Vol.58, No. 7 September, 2021

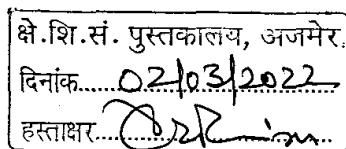
Journal of Research in Science Teaching

Volume 58, Issue 7, September 2021

CONTENTS

Research Articles

- Understanding science career aspirations: Factors predicting future science task value:
M. Ghil Jones, Katherine Chesnutt, Megan Ennes, Kelly Lynn Mulvey, and Emily Cayton..... 937
Published online 26 March 2021 in Wiley Online Library
 - Re-designing infrastructure as a strategy for crafting coherence across three networks focused
on the implementation of the next generation science standards: *Jonathan L. Hall,
Todd Campbell, and Lisa Lundgren*..... 956
Published online 24 March 2021 in Wiley Online Library
 - Investigating structural relationships among upper-secondary school students' beliefs about
knowledge, justification for knowing, and Internet-specific justification in the domain of
science: *Chia-Hui Cheng, Ivar Bråten, Fang-Ying Yang, and Christian Brandmo*..... 980
Published online 30 March 2021 in Wiley Online Library
 - Collaboratively engineering for justice in sixth grade STEM: *Angela Calabrese Barton,
Kathleen Schenkel, and Edna Tan*..... 1010
Published online 16 April 2021 in Wiley Online Library
 - Factors influencing middle school students' interdisciplinary competence in science education:
Ge Song and Zuhao Wang..... 1041
Published online 15 April 2021 in Wiley Online Library
- #### Comment
- Asset-oriented framing of science and language learning with multilingual learners: *Okhee Lee*..... 1073
Published online 30 April 2021 in Wiley Online Library



Journal of Research in Science Teaching Vol.58, No. 8 October, 2021

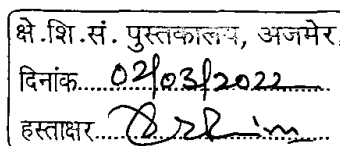
Journal of Research in Science Teaching

Volume 58, Issue 8, October 2021

CONTENTS

Research Articles

- Developing deep learning in science classrooms: Tactics to manage epistemic uncertainty during whole-class discussion: *Ying-Chih Chen and Ratrapee Techawitthayachinda* 1083
Published online 22 April 2021 in Wiley Online Library
- “Anybody can do science if they’re brave enough”: Understanding the role of science capital in science majors’ identity trajectories into and through postsecondary science: *Allison J. Gonsalves, Alexandre Soares Cavalcante, Emily Diane Sprowls, and Hailey Iacono*..... 1117
Published online 13 May 2021 in Wiley Online Library
- Fighting “bad science” in the information age: The effects of an intervention to stimulate evaluation and critique of false scientific claims: *Anita S. Tseng, Sade Bonilla, and Anna MacPherson* 1152
Published online 11 May 2021 in Wiley Online Library
- To know about science is to love it? Unraveling cause–effect relationships between knowledge and attitudes toward science in citizen science on urban wildlife ecology: *Till Bruckermann, Hannah Greiving, Anke Schumann, Milena Stillfried, Konstantin Börner, Sophia E. Kimmig, Robert Hagen, Miriam Brandt, and Ute Harms*..... 1179
Published online 4 May 2021 in Wiley Online Library
- From feeling forces to understanding forces: The impact of bodily engagement on learning in science: *Asnat R. Zohar and Sharona T. Levy*..... 1203
Published online 26 May 2021 in Wiley Online Library
- Setting empirically informed content knowledge policy benchmarks for physical science teaching: *Elizabeth B. Lewis, Ana M. Rivero, Lyrica L. Lucas, Aaron A. Musson, and Brandon A. Holding*..... 1238
Published online 27 May 2021 in Wiley Online Library



Journal of Research in Science Teaching Vol.58, No. 9 November, 2021

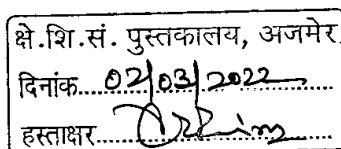
Journal of Research in Science Teaching

Volume 58, Issue 9, November 2021

CONTENTS

Research Articles

- “There are other ways to help besides using the stuff”: Using activity theory to understand dynamic student participation in small group science, technology, engineering, and mathematics activities: *Jeanna R. Wieselmann, Emily A. Dare, Gillian H. Roehrig, and Elizabeth A. Ring-Whalen*..... 1281
Published online 22 May 2021 in Wiley Online Library
- The culturally responsive science teaching practices of undergraduate biology teaching assistants: *Hillary A. Barron, Julie C. Brown, and Sehoya Cotner*..... 1320
Published online 22 May 2021 in Wiley Online Library
- Development and validation of an observation protocol for measuring science teachers' modeling-based teaching performance: *Fan Shi, Lei Wang, Xiufeng Liu, and Mei-Hung Chiu*..... 1359
Published online 24 May 2021 in Wiley Online Library
- Negotiations in scientific argumentation: An interpersonal analysis: *Donna Governor, Doug Lombardi, and Catie Duffield*..... 1389
Published online 20 May 2021 in Wiley Online Library
- Science engagement as insight into the science identity work nurtured in community-based science clubs: *Lydia E. Carol-Ann Burke and Ana Maria Navas Iannini*..... 1425
Published online 24 May 2021 in Wiley Online Library



Journal of Research in Science Teaching

Volume 58, Issue 10, December 2021

CONTENTS

Research Articles

- Examining the interdependence in the growth of students' language and argument competencies in replicative and generative learning environments: *Ali Cikmaz, Gavin Fulmer, Fatma Yaman, and Brian Hand*..... 1457
Published online 31 May 2021 in Wiley Online Library
 - Development and validation of an observation-based protocol to measure the eight scientific practices of the next generation science standards in K-12 science classrooms: *Ying-Chih Chen and Takeshi Terada*..... 1489
Published online 8 June 2021 in Wiley Online Library
 - Unpacking the connections between 8th graders' climate literacy and epistemic cognition: *Nathan Anderson Quarderer, Gavin W. Fulmer, Brian Hand, and Ted A. Neal* 1527
Published online 22 June 2021 in Wiley Online Library
 - "I got to see, and I got to be a part of it": How cued gesturing facilitates middle-school students' explanatory modeling of thermal conduction: *Nitasha Mathayas, David E. Brown, and Robb Lindgren* 1557
Published online 26 June 2021 in Wiley Online Library
- #### Comment
- Open for whom? The need to define open science for science education: *Aaron Kessler, Rasheda Likely, and Joshua M. Rosenberg* 1590
Published online 25 September 2021 in Wiley Online Library

के.शि.सं. पुस्तकालय, अजमेर.
दिनांक... 02/03/22
हस्ताक्षर... *[Signature]*

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Journal of Research in Science Teaching Vol.59, No. 1 January, 2022

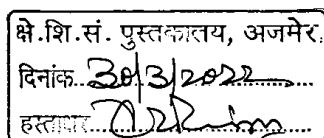
Journal of Research in Science Teaching

Volume 59, Issue 1, January 2022

CONTENTS

Research Articles

- Professional development to support principals' vision of science instruction: Building from their prior experiences to support the science practices: *Katherine L. McNeill, Rebecca Lowenhaupt, Kevin Cherbow, and Benjamin R. Lowell*..... 3
Published online 28 June 2021 in Wiley Online Library
- Harmonious or disjointed?: Epistemological framing and its role in an integrated science and engineering activity: *Jennifer Schellinger, Lama Z. Jaber, and Sherry A. Southerland*..... 30
Published online 28 June 2021 in Wiley Online Library
- Identities in/out of physics and the politics of recognition: *Lucy Avraamidou* 58
Published online 22 July 2021 in Wiley Online Library
- Spatial thinking in science, technology, engineering, and mathematics: Elementary teachers' beliefs, perceptions, and self-efficacy: *Kristin Michod Gagnier, Steven J. Holochwost, and Kelly R. Fisher*..... 95
Published online 10 August 2021 in Wiley Online Library
- Teaching science to transgress: Portraits of feminist praxis: *Sara Tolbert, Salina Gray, Marelis Rivera, and Alexa Schindel*..... 127
Published online 7 August 2021 in Wiley Online Library



Journal of Research in Science Teaching Vol.59, No. 2 February, 2022

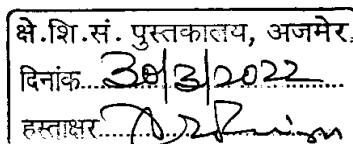
Journal of Research in Science Teaching

Volume 59, Issue 2, February 2022

CONTENTS

Research Articles

- Science education for and as resiliency through indoor agriculture: *Sarah Riggs Stapleton and Briana K. Meier*..... 169
Published online 11 August 2021 in Wiley Online Library
- Considering discussion types to support collective sensemaking during a storyline unit: *Benjamin R. Lowell, Kevin Cherbow, and Katherine L. McNeill*..... 195
Published online 21 August 2021 in Wiley Online Library
- “Well that’s how the kids feel!”—Epistemic empathy as a driver of responsive teaching: *Lama Z. Jaber, Vesal Dini, and David Hammer* 223
Published online 18 August 2021 in Wiley Online Library
- Making an impression: What do students who attended an informal evolution enrichment program in the sixth-grade recall from the experience 3 years later?: *Dina Nesimyan-Agadi and Orit Ben Zvi Assaraf*..... 252
Published online 27 August 2021 in Wiley Online Library
- School subjects’ synergy and teacher knowledge: Do biology and chemistry teachers benefit equally from their second subject?: *Virginia Deborah Elaine Welter, Stefanie Herzog, Ute Harms, Mirjam Steffensky, and Jörg Großschedl* 285
Published online 23 September 2021 in Wiley Online Library



Journal of Research in Science Teaching Vol.59, No. 3 March, 2022

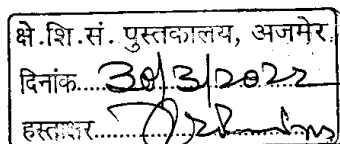
Journal of Research in Science Teaching

Volume 59, Issue 3, March 2022

CONTENTS

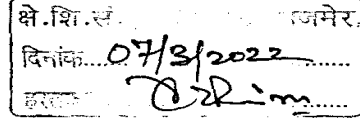
Research Articles

- Effectiveness of inquiry-based science laboratories for improving teamwork and problem-solving skills and attitudes: *Ying Huang* 329
Published online 15 October 2021 in Wiley Online Library
- Influence of science text reading difficulty and hands-on manipulation on science learning: An eye-tracking study: *Yu-Cin Jian* 358
Published online 5 October 2021 in Wiley Online Library
- Epistemic uncertainty and the support of productive struggle during scientific modeling for knowledge co-development: *Ying-Chih Chen* 383
Published online 8 November 2021 in Wiley Online Library
- The effect of a student–teacher–scientist partnership program on high school students' science achievement and attitudes about scientists: *Joseph A. Taylor, Catrina T. Adams, Anne L. Westbrook, Jodi Creasap Gee, Jessaca K. Spybrook, Susan M. Kowalski, April L. Gardner, and Mark Bloom* 423
Published online 10 November 2021 in Wiley Online Library
- Constructing STEM identity: An expanded structural model for STEM identity research: *Remy Dou and Heidi Cian* 458
Published online 6 November 2021 in Wiley Online Library



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

मधुमती वर्ष 62 अंक 2, फ़रवरी, 2022



क्रम

विशेष संस्मरण

<p>✓ आचार्य रामचन्द्र शुक्ल: आलोचना की वैज्ञानिक अभिव्यक्ति छबिल कुमार मेहेर यथार्थवादी काव्य-चेतना और कवि चन्द्रदेव शर्मा नन्द भारद्वाज लेख कविता- एक शामिल जादू रंजना अरगड़े कारपोरेट-संस्कृति और इक्कीसवीं सदी की हिन्दी कहानी शशिभूषण मिश्र ✓ कला से रोमांस : कुछ दृश्य, कुछ अदृश्य लीलाधर मंडलोई महामारी और मानवाधिकार का विमर्श संदर्भ : कोविड -19 मिथिलेश कुमार तिवारी नेहरू का समाजवाद और आधुनिक भारत प्रेम बहुखंडी ✓ महाभारत: क्लोज रीडिंग त्र्यम्बक नाथ त्रिपाठी</p>	<p>11 26 33 38 47 51 57 66</p>	<p>✓ महादेवी के स्त्री-पात्रों में लोकतान्त्रिक चेतना इन्दिरा डांगी भारतीय लोकतंत्र और अखिलेश की कहानियाँ शशिकला त्रिपाठी कृषक आन्दोलन और राजनीतिक द्वंद्व कुँवर प्रांजल सिंह अनुवाद शंख घोष की दस कविताएँ मूल बंगला से अनुवाद : रोहित प्रसाद पथिक संस्मरण अपनी ज़मीन की खुशबू माधव नागदा डायरी साँवली लड़की की डायरी अमिता नीरव उपन्यास अंश घोंघा बसंत एस.डी. वैष्णव</p>	<p>72 78 84 92 96 100 106</p>
--	--	---	---

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

मधुमती वर्ष 62 अंक 2, फ़रवरी, 2022

कहानी	
हिये तराजू तौल के.. दिव्या विजय	112
कविता	
पूनम पाण्डे	120
लता खत्री	122
शुभम् आमेटा	124
समीक्षा	
✓ आधुनिक सन्दर्भ और महाभारत मूलचन्द बोहरा	127
स्त्रीत्व का सामुहिक अर्त्तनाद आनन्द पाण्डेय	130
उत्तर पैगम्बर : मंजिल से पहले रास्ता बृजेश अम्बर	136
इंजीकरी : धरती के पृथ्वी और प्यास के पानी होने का बोध त्रिभुवन	140
साहित्यिक समाचार	144
संवाद निरन्तर	148
प्राप्ति स्वीकार	151
पाण्डुलिपियों की सूची	153
सूचन	158

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Oxford review of Education Vol.48, No. 1 February, 2022

Oxford Review of Education

Higher education and the labour market

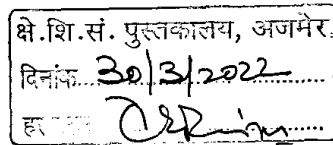
 **Routledge**
Taylor & Francis Group

Volume 48 Number1 February 2022

CONTENTS

Research Article

Can SENCOs do their job in a bubble? The impact of Covid-19 on the ways in which we conceptualise provision for learners with special educational needs <i>Fiona Hallett</i>	1
Country houses repurposed as private schools: what might be the motivations? <i>Geoffrey Walford</i>	14
Is teaching bad for your health? New evidence from biomarker data <i>Sam Sims, John Jerrim, Hannah Taylor and Rebecca Allen</i>	28
Missing values: engaging the value of higher education and implications for future measurements <i>Michael Tomlinson</i>	46
The micro-politics of the enactment of a school literacy policy <i>Mark Innes</i>	63
Locked in: understanding the 'irreversibility' of powerful private supplementary tutoring markets <i>Sonia Exley</i>	78
Children, classrooms and challenging behaviour: do the rights of the many outweigh the rights of the few? <i>Jenna K. Gillett-Swan and Laura Lundy</i>	95
When the 'mindfulness wars' enter the classroom: making sense of the critique of school-based mindfulness <i>Nis Langer Primdahl</i>	112



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Oxford review of Education Vol.48, No. 2 April, 2022

Oxford Review of Education


 Routledge
Taylor & Francis Group

Volume 48 Number 2 April 2022

CONTENTS

Research Article

The educational competence of the European Court of Human Rights: judicial pedagogies of religious symbols in classrooms <i>Nigel Fancourt</i>	131
A validation study for a short-version scale to assess 21st century skills in flipped EFL classrooms <i>Hanwei Tang, Liqun Mao, Fuyan Wang and Hong Zhang</i>	148
Mathematics curriculum waves within vocational education <i>Diane Dalby and Andrew Noyes</i>	166
Gender differences in students' perceptions of teacher and peer feedback in mathematics: lessons from Denmark <i>Bent Sorkær and David Reimer</i>	184
Rethinking the purposes of teacher education: an exploratory study of Aotearoa New Zealand and Taiwan <i>Hui-Chin Yeh and Leechin Heng</i>	201
What to learn? Curricular interest among socially vulnerable students <i>Daniel Araneda, Zvi Bekerman, María Rojas and Miguel Nussbaum</i>	218
The association between social goals and academic variables in school: a systematic review <i>Naska Goagoses and Ute Koglin</i>	234
'Closing the gap': the conditions under which children in care are most likely to catch up in mainstream schools <i>Ian Sinclair, John Fletcher, Aoife O'Higgins, Nikki Luke and Sally Thomas</i>	252

क्षे.शि.सं. पुस्तकालय, अजमेर
दिनांक. 30/3/2022
हस्ताक्षर. 

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Professional Development in Education Vol.48, No. 1 February, 2022

PROFESSIONAL DEVELOPMENT
IN EDUCATION

 Routledge
Taylor & Francis Group

Volume 48 Number 1 2022

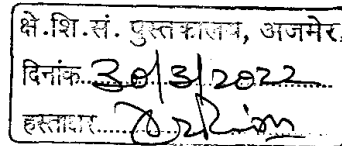
CONTENTS

EDITORIAL

- 1 Climate justice and teacher professional learning ... we owe it to our young people
Aileen Kennedy

ARTICLE

- 5 Teachers' moral learning in professional learning groups
Helma De Keijzer, Gaby Jacobs, Jacqueline Van Swet and Wiel Veugelers
- 22 Professional development with universal design for learning: supporting teachers as learners to increase the implementation of UDL
Stephanie L. Craig, Sean J. Smith and Bruce B. Frey
- 38 Building school capacity for teacher learning in China
Liang Huang, Nicholas Sun-Keung Pang and Ya-Ting Huang
- 53 Investigating teacher learning in Lesson Study: the important link between reported observations and change of plans
Anne Mette Færøyvik Karlsen
- 70 Teachers learning to apply neuroscience to classroom instruction: case of professional development in British Columbia
Yuen Sze Michelle Tan and Joshua Johnstone Amiel
- 88 Professional development of teachers in PISA achiever countries: Finland, Estonia, Japan, Singapore and China
Funda Eda Tonga, Sümeyra Eryiğit, Fatma Ay Yalçın and Feyza Tantekin Erden
- 105 School and university in partnership: a shared enquiry into teachers' collaborative practices
Catriona Oates and Carole Bignell
- 120 Mapping the landscape of professional inquiry as a form of teacher learning in New Zealand: a narrative inquiry into one teacher's experience
Joanna Lim, Letitia Fickel and Janinka Greenwood
- 134 What matters in learning communities for inclusive education: a cross-case analysis
Elizabeth Walton, Suzanne Carrington, Beth Saggars, Chris Edwards and Wacango Kimani
- 149 Fixed or growth: teacher perceptions of factors that shape mindset
Avishay Zilka, Yael Grinshtain and Ronit Bogler
- 166 Teacher professional learning under audit: reconfiguring practice in an age of standards
Nicole Mockler



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Professional Development in Education Vol.48, No. 2 April, 2022

PROFESSIONAL DEVELOPMENT
IN EDUCATION

Volume 48 Number 2 2022

 Routledge
Taylor & Francis Group

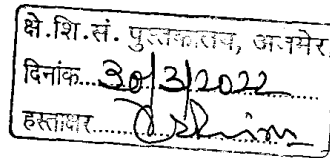
CONTENTS

EDITORIAL

- 181 Leading professional learning: how can a journal take a leadership role?
Ken Jones

ARTICLE

- 185 The role of the mentor in an increasingly school-led English initial teacher education policy context
Gillian Peiser, Debbie Duncalf and Andrea Mallaburn
- 203 What teachers never have time to do: peer observation as professional learning
Jeremy D. Visone
- 218 Beyond content-focused professional development: powerful professional learning through genuine learning communities across grades and subjects
Jennifer Gore and Brooke Rosser
- 233 The professional development needs of primary teachers in special classes for children with autism in the republic of Ireland
Caitriona Finlay, William Kinsella and Paula Prendeville
- 254 A university supported social constructivist model of professional development
Tish Balfe and Órla Ní Bhroin
- 273 Learning by doing: evaluating the key features of a professional development intervention for teachers in data-use, as part of whole school self-evaluation process
Shivaun O'Brien, Gerry McNamara, Joe O'Hara and Martin Brown
- 298 A socio-constructivist approach to developing a professional learning intervention for early childhood education and care practitioners in Wales
Ann-Marie Gealy, Glenda Tinney, Natalie Macdonald and Jane Waters
- 315 Investigating the PDR process in a UK university: continuing professional development or performativity?
Alan Floyd
- 330 Professional learning, positioning, and institutional power
Lijuan Shi
- 343 Beyond the measures: the antecedents of teacher collective efficacy in professional learning
Tony Loughland and Mary Ryan
- 353 Methodology and the professional doctorate – the muddy waters of knowledge creation, transfer and workplace capital
Sara Smith



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Reflective Practice Vol.23, No. 1 February, 2022

Reflective Practice
International and Multidisciplinary Perspectives

Volume 23 Number 1 February 2022

CONTENTS

Research Article

- 1 Playing with the diary: how crafting a multimodal and sensory diary can have a positive impact on teacher wellbeing
Lucy Kelly
- 17 Visual limitations do not indicate poor quality of life: reflections by future eye care professionals
Cherie Lucas and Vincent Nguyen
- 30 Strategies to promote generative reflection in practicum tutorials in teacher training: The representations of tutors and practicum students
Andrea Ruffinelli, Carolina Álvarez Valdés and Macarena Salas Aguayo
- 44 Evaluating reflective writing to guide curricular improvements in health informatics education
Cynthia Lokker and Rita Jezrawi

Comment

- 57 Asking key questions of self-reflection
Simon Brownhill

Research Article

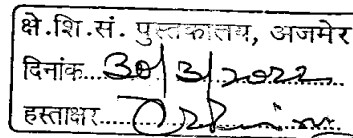
- 68 Reflective writing and the self-perceived development of intrapersonal communication skills among first-year university students in the UAE
Tanju Deveci and Mark Wyatt

Comment

- 81 Thought piece: to what extent could the reflective approach to teaching practicum debriefing strategy be incorporated in lesson study?
Mark Minott

Research Article

- 88 Action research and collaborative reflective practice in English language teaching
Jovanna Godínez Martínez
- 103 Exploring experienced teachers' attitudes to critical incidents
Emrah Akdağ
- 118 How should reflection be supported in higher education? — A meta-analysis of reflection interventions
Lin Guo



LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

Reflective Practice Vol.23, No. 2 April, 2022

Reflective Practice

International and Multidisciplinary Perspectives

Volume 23 Number 2 April 2022

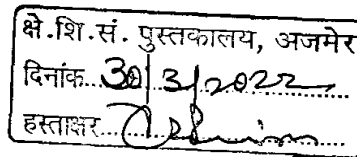
CONTENTS

Research Article

- 147 Discovering reflective-narrative: constructing experience in the Deweyan guide for reflective practice
Scott W. Greenberger, Kelly R. Maguire, Cheryl L. Martin, Tara E. Chavez and Gina Delgado
- 162 Collaborative reflection on environmental practices: a vehicle for environmental education in teacher education
Qudsia Kalsoom, Afifa Khanam and Naima Qureshi
- 177 Encouraging reflective practice through learning portfolios in an authentic online foreign language learning environment
M. Pais Marden and Jan Herrington
- 190 Virtual Focus Group Discussions: the new normal way to promote reflective practice
Josephine Luz de Leon Pineda, Rose Lynn de Dios Villanueva and Joyce Ann Macatuno Tolentino
- 203 Leveraging the Camino de Santiago: promoting intentional reflection and group cohesion during study abroad
Stephanie M. Knouse
- 219 Narrating care during the COVID-19 pandemic in a paediatric emergency department
Barbara De Vito, Emanuele Castagno, Emanuela Garrone, Irene Tardivo, Alessio Conti, Michela Luciani, Antonio Francesco Urbino, Lorenza Garrino and Valerio Dimonte
- 232 A narrative inquiry of storytelling: a learning strategy for nursing students to reflect on their interactions with patients
Susan Timpani, Linda Sweet and Nina Sivertsen
- 246 The reflective processes of principals as an engine of school change
Graciela Cappelletti and Mariana Paz Sajon
- 258 'My first thoughts were Why?' Using Saul's (2001) six qualities to get to the pearl grit of reflection
Colette Eaton
- 266 Pre-service teachers' reflection on their efficacy beliefs in conducting action research
Gina B. Ugalingan, Aileen C. Bautista and Ma. Joahna Mante-Estacio

Comment

- 279 Asking more key questions of self-reflection
Simon Brownhill



Review of Educational Research Vol.91, No. 1 February, 2021

Review of Educational Research

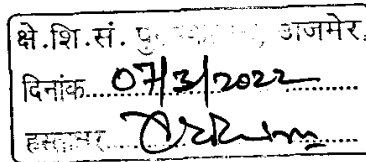
Volume 91

Number 1

February 2021

CONTENTS

- 3 Simple View of Reading in Chinese: A One-Stage Meta-Analytic Structural Equation Modeling
Peng Peng, Kejin Lee, Jie Luo, Shuting Li, R. Malatesha Joshi, and Sha Tao
- 34 The Structure of Academic Self-Concept: A Methodological Review and Empirical Illustration of Central Models
A. Katrin Arens, Malte Jansen, Franzis Preckel, Isabelle Schmidt, and Martin Brunner
- 73 The Association Between School Discipline and Self-Control From Preschoolers to High School Students: A Three-Level Meta-Analysis
Jian-Bin Li, Shan-Shan Bi, Yayouk E. Willems, and Catrin Finkenauer
- 112 How Does Initial Teacher Education Research Frame the Challenge of Preparing Future Teachers for Student Diversity in Schools? A Systematic Review of Literature
Leonie Rowan, Terri Bourke, Lyra L'Estrange, Jo Lunn Brownlee, Mary Ryan, Susan Walker, and Peter Churchward



Review of Educational Research Vol.91, No. 2 April, 2021

Review of Educational Research

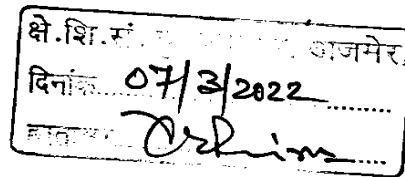
Volume 91

Number 2

April 2021

CONTENTS

- 163 Configuring a Construct Definition of Teacher Working Conditions in the United States: A Systematic Narrative Review of Researcher Concepts
Becca C. Merrill
- 204 Video Improves Learning in Higher Education: A Systematic Review
Michael Noetel, Shantell Griffith, Oscar Delaney, Taren Sanders, Philip Parker, Borja del Pozo Cruz, and Chris Lonsdale
- 237 Moving Beyond Peer Review of Teaching: A Conceptual Framework for Collegial Faculty Development
Rachelle Esterhazy, Thomas de Lange, Sofie Bastiansen, and Anne Line Wittek
- 272 Quotation Accuracy Matters: An Examination of How an Influential Meta-Analysis on Active Learning Has Been Cited
Amedee Marchand Martella, Jane Kinkus Yacilla, Ronald C. Martella, Nancy E. Marchand-Martella, Zafer Ozen, Tugce Karatas, Helen H. Park, Alexandra Simpson, and Jeffrey D. Karpicke



Review of Educational Research

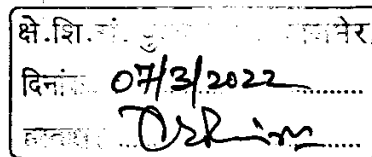
Volume 91

Number 3

June 2021

CONTENTS

- 311 Reporting Practice in Multilevel Modeling: A Revisit After 10 Years
*Wen Luo, Haoran Li, Eunhye Baek, Siqi Chen, Kwok Hap Lam,
and Brandie Semma*
- 356 Equity in Secondary Career and Technical Education in the United States:
A Theoretical Framework and Systematic Literature Review
*Elisabeth H. Kim, Clare Buckley Flack, Katharine Parham,
and Priscilla Wohlstetter*
- 397 Disproportionality Reduction in Exclusionary School Discipline:
A Best-Evidence Synthesis
Rebecca A. Cruz, Allison R. Firestone, and Janelle E. Rodl
- 432 Inclusive Education of Students With General Learning Difficulties:
A Meta-Analysis
Sonja Krämer, Jens Möller, and Friederike Zimmermann



Review of Educational Research Vol.91, No. 4 August, 2021

Review of Educational Research

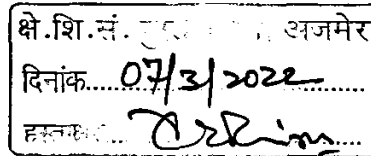
Volume 91

Number 4

August 2021

CONTENTS

- 483 A Comparison of Children's Reading on Paper Versus Screen: A Meta-Analysis
May Irene Furenes, Natalia Kucirkova, and Adriana G. Bus
- 518 Influences on User Engagement in Online Professional Learning: A Narrative
Synthesis and Meta-Analysis
*Jane Lee, Taren Sanders, Devan Antczak, Rhiannon Parker, Michael Noetel,
Philip Parker, and Chris Lonsdale*
- 577 Effects of Family Literacy Programs on the Emergent Literacy Skills of Children
From Low-SES Families: A Meta-Analysis
Suzanne Fikrat-Wevers, Roel van Steensel, and Lidia Arends
- 614 Factors Associated With College STEM Participation of Racially Minoritized
Students: A Synthesis of Research
*Martha Cecilia Bottia, Roslyn Arlin Mickelson, Cayce Jamil, Kyleigh Moniz,
and Leanne Barry*



Review of Educational Research Vol.91, No. 5 October, 2021

Review of Educational Research

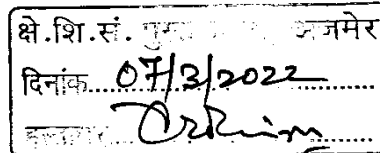
Volume 91

Number 5

October 2021

CONTENTS

- 651 Methodological Guidance Paper: The Craft of Conducting a Qualitative Review
Suzanne M. Wilson and Dorothea Anagnostopoulos
- 671 The Ethics of Using Digital Trace Data in Education: A Thematic Review of the Research Landscape
Laura Hakimi, Rebecca Eynon, and Victoria A. Murphy
- 718 Comprehensive Meta-Analysis of Attention-Deficit/Hyperactivity Disorder Psychosocial Treatments Investigated Within Between Group Studies
Gregory A. Fabiano, Nicole K. Schatz, Ariel M. Aloe, William E. Pelham, Jr., Alyssa C. Smyth, Xin Zhao, Brittany M. Merrill, Fiona Macphee, Marcela Ramos, Natalie Hong, Amy Altszuler, Leah Ward, Derek B. Rodgers, Zhijiang Liu, Rabia Karatoprak Ersen, and Stefany Coxé
- 761 When Problem Solving Followed by Instruction Works: Evidence for Productive Failure
Tannay Sinha and Manu Kapur



Review of Educational Research Vol.91, No. 6 December, 2021

Review of Educational Research

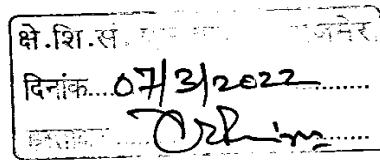
Volume 91

Number 6

December 2021

CONTENTS

- 803 Understanding Influences of Development on Black Women's Success in U.S. Colleges: A Synthesis of Literature
Christa J. Porter and Janice A. Byrd
- 831 A Systematic Review of Science Discourse in K-12 Urban Classrooms in the United States: Accounting for Individual, Collective, and Contextual Factors
Christine L. Bae, Daphne C. Mills, Fa Zhang, Martinique Sealy, Lauren Cabrera, and Marquita Sea
- 878 To Flip or Not to Flip? A Meta-Analysis of the Efficacy of Flipped Learning in Higher Education
Carrie A. Bredow, Patricia V. Roehling, Alexandra J. Knorp, and Andrea M. Sweet
- 919 Students' Perceptions of Their Rights in School: A Systematic Review of the International Literature
Lotem Perry-Hazan
- 958 Reviewer Acknowledgments



साहित्य अमृत वर्ष 27, अंक 9 अप्रैल, 2022



साहित्य अमृत

क्षे.शि.सं. पुस्तकालय, अजमेर
दिनांक 29/3/2022

चैत्र-वैशाख, संवत्-२०७८-७९ ♦ अप्रैल २०२२

मासिक

वर्ष-२७ ♦ अंक-९ ♦ पृष्ठ ८४

यू.जी.सी.-केयर लिस्ट में उल्लिखित

ISSN 2455-1171

<p>संस्थापक संपादक पं. विद्यानिवास मिश्र निवर्तमान संपादक डॉ. लक्ष्मीमल्ल सिंघवी श्री त्रिलोकी नाथ चतुर्वेदी संस्थापक संपादक (प्रबंध) श्री श्यामसुंदर प्रबंध संपादक पीयूष कुमार संपादक लक्ष्मी शंकर वाजपेयी संयुक्त संपादक डॉ. हेमंत कुकरेती उप संपादक उर्वशी अग्रवाल 'उर्वी' कार्यालय ४/१९, आसफ अली रोड, नई दिल्ली-०२ फोन : ०११-२३२८९७७७ ०८४४८६१२२६९ ई-मेल : sahyaaamrit@gmail.com शुल्क एक अंक—₹ ३० वार्षिक (व्यक्तियों के लिए)—₹ ३०० वार्षिक (संस्थाओं/पुस्तकालयों के लिए)—₹ ४०० विदेश में एक अंक—चार यू.एस. डॉलर (US\$4) वार्षिक—चैतालीस यू.एस. डॉलर (US\$45) साहित्य अमृत के बैंक खाते का विवरण बैंक ऑफ इंडिया खाता सं. : 600120110001052 IFSC : BKID0006001 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, साहिबवाबाद इंडस्ट्रियल एरिया, साइट-IV, गान्धिबाबाद-२०१०१० द्वारा मुद्रित।</p>	<p>संपादकीय प्रभु श्रीराम के देश में ४ प्रतिस्मृति एक नई शुरुआत/ नरेंद्र कोहली ६ कहानी धैर्य नंदू, धैर्य आंटी"!/ प्रकाश मनु १० इस रिश्ते को क्या नाम दें?/ विपिन पवार ३० जीवाणु सम्मेलन/ कर्नल पी.सी. वशिष्ठ ४८ शाख से टूटी हुई"/ इला प्रसाद ५६ सिंदूर/ रणौराम गढ़वाली ६६ लघुकथा विवशता/ रेनु मंडल १६ सिर्फ रोटियाँ/ बलराम अग्रवाल २५ अवधारणा/ भगवान वैद्य 'प्रखर' २९ नजर/ योगेंद्र नाथ शुक्ल ६४ चौहद्दी से मुक्ति/ योगेंद्र नाथ शुक्ल ६८ ऑनलाइन रिश्ते/ नेहा सूरज बिनानी 'शिल्पी' ७२ जमाना/ भगवान वैद्य 'प्रखर' ७६ आलेख हम क्यों भूलते जा रहे हैं विक्रम संवत्?/ राजशेखर व्यास १४ संत-साहित्य का वैभव और दादूपंथ/ नंद किशोर पांडेय २२ विवशताएँ/ चंद्रपाल मिश्र 'गगन' २६ महुआ डबल/ कार्दबरी मेहरा ३६ अमेरिका का हिंदू समाज, पहचान की तलाश/ रेणु 'राजवंशी' गुप्ता ४२ विस्थापन : एक अनवरत यात्रा/ देवी प्रसाद तिवारी ५० लोक-संस्कृति का आँगन : पुरखौती मुक्तांगन/ संदीप राशिनकर ५४ साहित्यकार : दायित्व बोध का प्रश्न/ वेद प्रकाश ६०</p>	<p>स्वाधीनता संघर्ष के अमर नायक सरदार अजीत सिंह/ उत्कर्ष श्रीवास्तव ७४ कविता गजलें/ बालस्वरूप राही १७ गदराई गेहूँ की बाली/ सूर्यप्रकाश मिश्र २१ जीवन सपना है/ आर.सी. शुक्ला ३५ मस्ती में झूमता/ मंजु गुप्ता ५३ रिश्ते सँभालकर देखो/ ब्रह्मानंद झा ५५ स्मृतियाँ आलंबन/ अनिल अग्निहोत्री ६९ संस्मरण कवि-सम्मेलन के बहाने दिनकरजी से भेंट/ भैरूलाल गर्ग १८ जिन्होंने जगाई स्वाधीनता की अलख डॉ. भीमराव आंबेडकर, मदाम भीकाजी कामा ३९ राम झरोखे बैठ के जेब कतरे महान् होते हैं/ गोपाल चतुर्वेदी ४५ ललित-निबंध धूँ-धूँ जले रे नरबाई/ नर्मदाप्रसाद सिसोदिया ६२ साहित्य का भारतीय परिपार्श्व मराठी कविताएँ/ संजय चौधरी ६५ साहित्य का विश्व परिपार्श्व बंदर/ एलेक्जेंडर किलैंड ७० लोक-साहित्य धनगर जाति का लोक-साहित्य/ योगेश राणुजी कोरटकर ७७ बाल-संसार कबीर, नविका और मछली/ मधु काँकरिया ७३ वर्ग-पहेली ७९ पाठकों की प्रतिक्रियाएँ ८० साहित्यिक गतिविधियाँ ८१</p>
---	--	--

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

Technology Pedagogy and Education Vol.30, No. 1 February, 2021

Technology Pedagogy and Education

07/3/2022
D.R.M.

Contents

<i>Covid-19 and the role of technology and pedagogy on school education during a pandemic</i>	
Introduction	
Special issue: Covid-19 and the role of technology and pedagogy on school education during a pandemic	
<i>Louise Starkey, Miri Shonfeld, Sarah Prestridge & Mercè Gisbert Cervera</i>	1
Article	
The educational response to Covid-19 across two countries: a critical examination of initial digital pedagogy adoption	
<i>Christine Greenhow, Cathy Lewin & K. Bret Staudt Willet</i>	7
Distance learning in Kazakhstan: estimating parents' satisfaction of educational quality during the coronavirus	
<i>Baurzhan Bokayev, Zulfiya Torebekova, Zhuldyz Davletbayeva & Fatima Zhakypova</i>	27
Technology-enabled remote learning during Covid-19: perspectives of Australian teachers, students and parents	
<i>Lee-Ann Ewing & Holly B. Cooper</i>	41
High school students' experience of online learning during Covid-19: the influence of technology and pedagogy	
<i>Anne Yates, Louise Starkey, Ben Egerton & Florian Flueggen</i>	59
The distance education process in K-12 schools during the pandemic period: evaluation of implementations in Turkey from the student perspective	
<i>Semra Fiş Erümit</i>	75
The Covid-19 epidemic: teachers' responses to school closure in developing countries	
<i>Zuheir N. Khalif, Soheil Salha, Saida Affouneh, Hadi Rashed & Loffia Ali ElKimishy</i>	95
E-inclusion: online special education in Italy during the Covid-19 pandemic	
<i>Davide Parmigiani, Vincenza Benigno, Marta Giusto, Chiara Silvaggio & Sara Sperandio</i>	111
Teachers' perspective on school development at German vocational schools during the Covid-19 pandemic	
<i>Jan Delcker & Dirk Ifenthaler</i>	125
Ready, set, go! Profiling teachers' readiness for online teaching in secondary education	
<i>Sarah K. Howard, Jo Tondeur, Fazilat Siddiq & Ronny Scherer</i>	141
'It is no longer scary': digital learning before and during the Covid-19 pandemic in Irish secondary schools	
<i>Darina Scully, Paula Lehane & Conor Scully</i>	159
Analysis of the implementation of teaching and learning processes at Catalan schools during the Covid-19 lockdown	
<i>Ramon Palau, Marta Fuentes, Jordi Mogas & Gisela Cebrián</i>	183

Technology Pedagogy and Education Vol.30, No. 2 April, 2021

Technology Pedagogy and Education

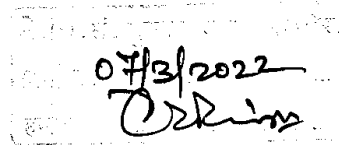
07/3/2022
C. K. S. M.

Contents

Article	
Understanding the influence of context in technology integration from teacher educators' perspective <i>Eloho Iinedo & Marja Kankaanranta</i>	201
TPACK-L: teachers' pedagogical design thinking for the wise integration of technology <i>Beomkyu Choi & Michael F. Young</i>	217
Using information problem-solving activities to teach: an exploratory study designed to improve teacher competencies related to internet use in the classroom <i>J. Enrique Hinojosa, Andrea Ibieta & Christian Labbé</i>	235
'It sounded like fun, that we would get to go to the university.' Pupils teaching ICT to peers: a case study of Finnish Media Agents <i>Katrina Maaranen & Heikki Kynäslähti</i>	257
A blended design of game-based learning for motivation, knowledge sharing and critical thinking enhancement <i>Wei-Lun Chang & Yu-chu Yeh</i>	271
The effects of a learning analytics dashboard on teachers' diagnosis and intervention in computer-supported collaborative learning <i>Haogang Bao, Yanyan Li, You Su, Shuang Xing, Nian-Shing Chen & Carolyn Penstein Rosé</i>	287
Evaluating a learning trail for academic integrity development in higher education using bilingual text mining <i>Siu-Cheung Kong, Wai-Ying Kwok & Chun-Wing Poon</i>	305
Reciprocal causation and the effect of environmental determinants upon the technology beliefs and practice of career-change pre-service teachers <i>Kim Rowston, Matt Bower & Stuart Woodcock</i>	323
Comparing a digital and a non-digital embodied learning intervention in geometry: can technology facilitate? <i>Yiannis Georgiou, Andri Ioannou & Panagiotis Kosmas</i>	345

Technology Pedagogy and Education Vol.30, No. 3 June, 2021

Technology Pedagogy and Education



Contents

Articles	
Electronic notes as a tool in emergent researchers' communities of practice <i>Chin-Wen Chien</i>	365
Teaching with technology: a lesson from social participation in an online learning community <i>Zaenal Abidin, Anuradha Mathrani & Roberta Hunter</i>	381
Searching to improve learning from complex animated basketball scenes: when decreasing the presentation speed is more efficient than using segmentation <i>Ghazi Rekik, Yosra Belkhir & Mohamed Jarraya</i>	393
Revealing the most and the least successful behaviours using two-phase clustering analysis <i>Aftab Akram, Fu Chengzhou, Ronghua Lin, Ansif Arooj, Yuan Chengzhe, Jiang Yuncheng & Tang Yong</i>	409
Using micro-lectures in small private online courses: what do we learn from students' behavioural intentions? <i>Kai Wang, Chang Zhu & Jo Tondeur</i>	427
Lecture capture as an element of the digital resource landscape - a qualitative study of flipped and non-flipped classrooms <i>A. K. Wood, T. N. Bailey, R. K. Galloway, J. A. Hardy, C. J. Sangwin & P. J. Docherty</i>	443
Preventing cyberbullying through ICT-centric education: a case study <i>Elias Said-Hung, Evaristo Gonzalez-Prieto & Marc Pallarès-Piquer</i>	459
Prospective teachers' appraisals of technology platforms: comparing perception and complexity <i>Julie M. Amador, Karl W. Kosko, Tracy Weston & Anne Estapa</i>	473

Technology Pedagogy and Education Vol.30, No. 4 September, 2021

Technology Pedagogy and Education

07/13/2022
D. P. 12

Contents

Article	
Technology adoption in architectural design studios for educational activities <i>Badiossadat Hassanpour & Nil Paşaoğluları Şahin</i>	491
Competency profile on the use of ICT resources by Spanish music teachers: descriptive and inferential analyses with logistic regression to detect significant predictors <i>Francisco D. Guillén-Gámez & Marta Ramos</i>	511
Developing twenty-first-century skills in out-of-school education: the Bridge21 Transition Year programme <i>Kevin Sullivan, Aibhin Bray & Brendan Tangney</i>	525
Making online learning more satisfying: the effects of online-learning self-efficacy, social presence and content structure <i>Jun Rong Nigel Lim, Sonny Rosenthal, Ye Jun Marcius Sim, Zhao-Yi Lim & Kai Rong Oh</i>	543
Enhancing EFL learners' intracultural development as cultural communicators through YouTube video-making <i>Shih-Hsien Yang & Hui-Chin Yeh</i>	557
Teacher anxiety and technology change: a review of the literature <i>Jessa Henderson & Michael Corry</i>	573
Continuous mobile devices usage tendency in the TPACK-based classroom and academic performance of university students <i>Syed Far Abid Hossain, Mohammad Nurunnabi & Khalid Hussain</i>	589
360 degree representation: desktop virtual reality combined with analytics in the primary school classroom <i>Damian Maher & John Buchanan</i>	609

Technology Pedagogy and Education Vol.30, No. 5 November, 2021

Technology Pedagogy and Education

07/3/2022
C.R.M.

Contents

Articles

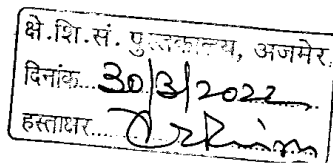
- Teacher educators' perspectives and practices towards the Technology Education Technology Competencies (TETCs)**
Danielle Herro, Ryan Visser & Meihua Qian 623
- Assessing digital maturity of schools: framework and instrument**
Nina Begicevic Redjep, Igor Bafaban & Bojan Zugec 643
- Digital labour and temporal priorities within a secondary school**
Nicola F. Johnson 659
- Determination of the factors affecting teachers' perceptions of classroom management competence in technology assisted courses**
Zuhal Özgün & Mustafa Saritepeci 673
- 'None of my other teachers know my face/emotions/thoughts': digital technology and democratic assessment practices in higher education physical education**
Julia Sargent & Shrehan Lynch 693

Theory Into Practice Vol.60, No. 1 January, 2021

THEORY INTO PRACTICE

Winter 2021 • Volume 60, Issue 1

This Issue <i>Brandon J. Sherman & Susan R. Adams</i>	1
The journey from traditional parent involvement to an alliance for empowerment: A paradigm shift <i>Donna Albrecht</i>	7
Toward collaborative partnerships: Lessons from parents and teachers of emergent bi/multilingual students <i>Alissa Blair & Mari Haneda</i>	18
An equity framework for family, community, and school partnerships <i>Annala Teemant, Gina Borgioli Yoder, Brandon J. Sherman & Cristina Santamaria Graff</i>	28
Co-investigation and co-education in 'family as faculty' approaches: A repositioning of power <i>Cristina Santamaria Graff</i>	39
Learning with immigrant indigenous parents in school and community <i>Patricia Baquedano-López</i>	51
Transforming educator identities and roles in family engagement through critical participatory action research <i>Katie Brooks, Brooke Kandel-Cisco & Catherine Bhatena</i>	62
Silencing bicultural parental voices through educational satisfaction: What do we need to know? <i>Edward M. Olivos</i>	72
Multilingual multiliteracies of Emergent Bilingual families: Transforming teacher's perspectives on the "literacies" of family engagement <i>Trish Morita-Mullaney</i>	83
"It's not fiction, it's my life": LGBTQ+ youth of color and kinships in an urban school <i>Boni Wozolek</i>	94
"Hard-won joy": Equity through collaboration <i>Eileen Landay & Shirley Brice Heath</i>	103



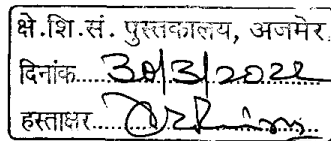
Theory Into Practice Vol.60, No. 2 April, 2021

THEORY INTO PRACTICE

Spring 2021 • Volume 60, Issue 2

This Issue

Reconceptualizing the teaching and learning of digital writing <i>Jessica Zacher Pandya & Julian Sefton-Green</i>	113
Is the re-contextualization of digital writing inevitable, escapable or desirable? <i>Julian Sefton-Green</i>	116
Writing the rules: Youth game-making practices as digital writing <i>Earl Aguilera</i>	126
Digital writing from the start to the end: Creating a book for a friend <i>Lisa Kervin & B. Comber</i>	137
Emergent digital authoring: Playful tinkering with mode, media, and technology <i>Becky Lucy Parry & Lucy Taylor</i>	148
Disentangling the possibilities, practicalities, and progressions of writing in the contemporary (digital) era <i>Cassie J. Brownell</i>	160
Digital production on Instagram: Vernacular literacies and challenges to schools <i>Andrea Valdivia</i>	172
On the material consequences of (digital) literacy: Digital writing with, for, and against racial capitalism <i>Roberto Santiago de Roock</i>	183
The uses of writing for digital video <i>Jessica Zacher Pandya</i>	194
Addressing pre-service teachers as digital writers: Conflicts and inconsistencies in practice <i>Lucinda McKnight</i>	202
Authoritative discourses of development in curricular policy on digital writing <i>Anna Smith & Carolyn S. Hunt</i>	215



Theory Into Practice Vol.60, No. 3 July, 2021

THEORY INTO PRACTICE

Summer 2021 • Volume 60, Issue 3

This Issue

Culturally sustaining pedagogies in education

Amy Seely Flint, Tasha Tropp Laman & Tandra O. Jackson

227

Research Article

Linguistic policies for African American language speakers: Moving from anti-Blackness to pro-Blackness

Gloria Swindler Boutte, Mary E. Earick & Tandra O. Jackson

231

A framework for supporting Preservice Teachers (PSTs) in culturally sustaining nonfiction writing

Eliza G. Braden & Valente' Gibson

242

You matter here: The impact of asset-based pedagogies on learning

Amy Seely Flint & Wanda Jagers

254

A revolutionary love story in teacher education and early childhood education

Kamania Wynter-Hoyte, Natasha Adams Thornton, Mukkaramah Smith & Kaitlin Jones

265

“Why didn’t I know this?”: Land education as an antidote to settler colonialism in early childhood teacher education

Anna Lees, Tasha Tropp Laman & Dolores Calderón

279

Internalized racism and the pursuit of cultural relevancy: Decolonizing practices for critical consciousness with preservice teachers of color

Tandra O. Jackson, Lasana D. Kazembe & Laryn Morgan

291

Creating spaces for emotional justice in culturally sustaining literacy education: Implications for policy & practice

Roberta Price Gardner, Sandra L. Osorio & Shashray McCormack

301

Our legends and journey stories: Exploring culturally sustaining family engagement in classrooms

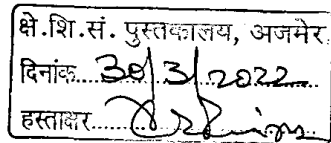
Tracey T. Flores & Sandra Springer

312

Interrogating the “gold standard”: Play-based early childhood education and perpetuating white supremacy

Timothy Kinard, Jesse Gainer, Nancy Valdez-Gainer, Dinah Volk & Susi Long

322



Theory Into Practice Vol.60, No. 4 October, 2021

THEORY INTO PRACTICE

Fall 2021 • Volume 60, Issue 4

Editorial

Theory into Practice at Sixty
Eric M. Anderman

333

This issue

Education and the political: The possibilities and constraints of political education in an (un)democratic world

Dinorah Sanchez Loza, Ann Allen & Dean Cristol

337

Research Article

Beyond fake news: Culturally relevant media literacies for a fractured civic landscape

Nicole Mirra, Lauren Leigh Kelly & Antero Garcia

340

Cultivating critical consciousness through digital video inquiry

Candance Doerr-Stevens & Melissa Leigh Gibson

350

Digital citizenship with intersectionality lens: Towards participatory democracy driven digital citizenship education

Moonsun Choi & Dean Cristol

361

Linking arms across districts: Accountability and support in cross-district teacher collaboration

Derek Thomas Burtch & Amelia Gordon

371

Dear “good” schools: White supremacy and political education in predominantly white and affluent suburban schools

Dinorah Sánchez Loza

380

Civic reasoning through paranoid and reparative reading: Addressing conspiracy theories within racialized and queer publics

Tadashi Dozono

392

“Authority must be on the side of freedom”: The relationship between teachers’ authority and Black and Latinx students’ political agency in challenging racism

Daren Graves

402

“Ain’t no white people have to be cultural ambassadors, right?” How a Latinx teacher in the US South resists ephemeral multiculturalism for political praxis

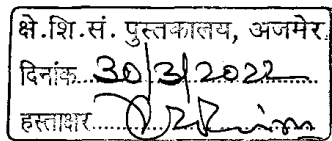
Timothy Monreal & Reina Floyd

412

The (good) trouble with Black boys: Organizing with Black boys and young men in George Floyd’s America

David C. Turner III

422



University News Vol.60, No. 8 February, 2022

क्षे.शि.सं. पुस्तकालय, अजमेर.
दिनांक 02/03/2022
हस्ताक्षर

UNIVERSITY NEWS
Vol. 60 February 21-27
No. 08 2022
Price Rs. 30.00

A Weekly Journal of Higher Education
Published by the Association of Indian
Universities

ITEMS	In This Issue	PAGE
Articles		
Changing Dynamism of Business Education		3
Technical Education Fee Structure Reconsideration: A Pressing Priority to Safeguard the Technical Education System of Punjab		8
Online Oral Examination: An Initiative by the Indian Institute of Teacher Education		11
Chatbots in Education System		15
ICT in Education and Blended Learning: Contemporary Practices in Indian Higher Education		19
Convocation Address Dayalbagh Educational Institution		28
Campus News		32
Theses of the Month (Humanities)		35
Advertisement		38

New Subscription Tariff (Effective April 01, 2020)				
Institutions	Inland		Foreign	
	Academics/ Students	Airmail	Surface Mail	
(at residential address only)				
	Rs.	Rs.	US\$	US\$
1 year	1250.00	500.00	210.00	170.00
2 years	2200.00	900.00	400.00	300.00

Subscription is payable in advance by Bank Draft/MO only in favour of Association of Indian Universities, New Delhi.

Opinions expressed in the articles are those of the contributors and do not necessarily reflect the views and policies of the Association.

Patron:
Col. Dr. G. Thiruvagam

Editorial Committee Chairperson:
Dr (Ms) Pankaj Mittal

Editorial Committee:
Dr Baljit Singh Sekhon
Dr Amarendra Pani
Dr Youd Vir Singh

Editor:
Dr Sista Rama Devi Pani

#Let'sBeatCoronaTogether

Changing Dynamism of Business Education

R D Sharma*

With the adoption of outcome based new education policy of 5+3+3+4 in the country, focusing on the techniques of experiential learning by performing the creative activities for generating knowledge and its application experiments from the early age onward with need based orientation within the parameters of recent initiatives regarding start ups, make in India, skill development, entrepreneurship, inbuilt innovative exercises, self employment along with enough flexibility for exit and entry to the academic programmes of higher education that too within cafeteria approach, the nature and scope of business education is bound to be regularly reviewed and updated for maintaining its relevance to the current challenges of *Digital Bharat, Swachh Bharat, Swastha Bharat, Atmnirbhar Bharat* of locally significant global perspectives. Accordingly both ongoing conventional and professional courses of business education have to undergo tremendous structural changes of far reaching significance to make them much more useful to the vibrant job markets of visible dynamism vis-à-vis entrepreneurship needs as warranted. The most of the popular highly professional courses, relevant to corporate administrative and financial affairs, being run by the Institute of Chartered Accountants of India, Institute of Costs and Works Accountants of India and Institute of Company Secretaries of India, are being always taken care of appropriately as per feedback from various stakeholders by the respective statutory national regulating bodies. Similarly, the MBA programme is under the control and supervision of three agencies including AICTE, UGC and respective Universities/Autonomous Institutes. However, majority of the conventional and ever green star courses, which predominantly constitute the core of business education catering to the needs of about 40% of total students of higher education in the country like MA (Eco), M Com, B Com, BBA, BA (Eco), etc. are under the dual control and supervision of UGC and respective Universities/Autonomous Institutions. Here regulating procedures, processes and practices in connection with needed updates of these courses in both UGC and respective educational institutions are widely carried on through their various internal statutory bodies, as per prescribed periodical review exercise, comprising mainly experts drawn as per objectively laid down norms from the various academic institutions of the country vis-à-vis industry and government agencies.

Thus, this paper, being an outgrowth of on-the-job lifelong experience of teaching and research, confines to restructuring the courses of business education with need based contents wherein aforesaid subject experts i.e. faculty members in higher education institutions including both Colleges and Universities have major

* Former Vice Chancellor, University of Jammu, Baba Saheb Ambedkar Road, Jammu Tawi (J&K)-180006. E-mail: ramjirdsharma@rediffmail.com

University News Vol.60, No. 9, 28 February-06 March, 2022

क्षे.शि.सं. पुस्तकालय, अजमेर.

दिनांक... 09/3/2022

हस्ताक्षर...

UNIVERSITY NEWS
Vol. 60 28-February-
No. 09 March 06, 2022
Price Rs. 30.00

A Weekly Journal of Higher Education
Published by the Association of Indian
Universities

ITEMS	In This Issue	PAGE
Articles		
Good Academic Research: Need of the Hour		3
Professional Engineering Education in India: Unemployability Issues		15
Changing Role of Teachers in India: Reflection from National Professional Standard for Teachers		20
Role of Teachers in Inculcation of Values		24
Convocation Address		
Indian Institute of Technology, Mandi (Himachal Pradesh)		27
Campus News		30
AIU NEWS		34
Theses of the Month (Science & Technology)		36
Advertisement		40

New Subscription Tariff
(Effective April 01, 2020)

Institutions	Inland		Foreign	
	Academics/ Students (at residential address only)	Airmail	Surface Mail	Surface Mail
	Rs.	Rs.	US\$	US\$
1 year	1250.00	500.00	210.00	170.00
2 years	2200.00	900.00	400.00	300.00

Subscription is payable in advance by Bank
Draft/MO only in favour of Association of
Indian Universities, New Delhi.

Opinions expressed in the articles are those of
the contributors and do not necessarily reflect
the views and policies of the Association.

Patron:

Col. Dr. G. Thiruvassagam

Editorial Committee Chairperson:

Dr (Ms) Pankaj Mittal

Editorial Committee:

Dr Baljit Singh Sekhon

Dr Amarendra Pani

Dr Youd Vir Singh

Editor:

Dr Sista Rama Devi Pani

#Let'sBeatCoronaTogether

Good Academic Research: Need of the Hour

Piyali Bose* and Jayanta Mete**

Research is, by and large, a self regulating and self-policing process wherein researchers conduct and present their research without falsification and fabrication, giving credit to other scholars for their ideas when and where such credit is due. However, research also has aspects of competition, including an emphasis on priority claims. Prestige has become associated with research excellence and high achievement; it has become a high-value undertaking in which intellectual success frequently leads to commercial success (Stephan, 2012).

It is critical for the advancement of scientific research that the research community pursues novel, influential, and relevant research. Research quality, benefits, and integrity are highly interdependent. Therefore, while maintaining high research quality is vital, it is equally important that research is conducted in a culture that supports honesty and integrity to ensure the highest standards of ethical practice and behaviour. There is ever-increasing pressure to demonstrate societal or economic impact of science coupled with the potential for monetary gain. To seek even the smallest advantage, the temptation to come close to, and perhaps cross, ethical boundaries is very strong. Given the high stakes, there is concern about the stability of the ethical foundations and integrity of the research enterprise. Welcome Trust Research Culture Report (2020) conducted a voluntary survey of respondents from all over the world, but mainly from the UK. The findings indicated that researchers felt intense pressure to publish, with scant value placed on how the results were achieved.

In India, this problem of scholarly wrongdoing is compounded by the recent rapid increase in the number of research publications in journals of dubious quality. Research publications across the world have grown at a compounded annual growth rate of approximately three per cent over the past two centuries (Johnson, et al., 2018: 5). This growth in research output has also been accompanied by a rise in poor-quality and predatory journals, and lapses in ethical research practice (Eykens, et al., 2019). Two per cent of the scientists who were surveyed admitted to having falsified, fabricated, or modified data (Fanelli, 2009). Retraction Watch, along with other similar organizations (Oransky, 2020; WAME, 2020), aim to, "promote transparency and integrity in science and scientific publishing, and to disseminate best practices and increase efficiency in science." They maintain, "a database of retractions, expressions of concern

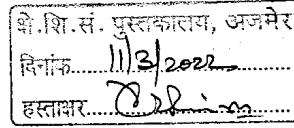
* Research Scholar, Department of Education, Faculty of Education, University of Kalyani, Kalyani-741235. (West Bengal).

**Department of Education, Faculty of Education, University of Kalyani, Kalyani-741235 (West Bengal). E-mail: jayanta_135@yahoo.co.in.

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

University News Vol.60, No. 10, 06-13 March, 2022

Table of Contents



Editorial	7
– <i>Sistla Rama Devi Pani</i>	
Conceptualizing the South Zone Vice Chancellors' Meet on Realizing Sustainable Development Goals through Higher Education Institutions for Actualizing Inclusive and Equitable Quality Education	
– <i>Pankaj Mittal and Sistla Rama Devi Pani</i>	9
Bharathiar University, Coimbatore: A Profile	13
1. University Engagement towards SDG 4 through Teaching, Curriculum and Research	
– <i>P Kaliraj, F X Lovelina Little Flower and M Ashitha Varghese</i>	15
2. Higher Education Institutions as Protagonist towards Attaining Sustainable Development Goals: Mapping Stratagems towards Feat	
– <i>U S Rawat and Suman Vij</i>	20
3. Sustainable Development Goal 4 and Creating Future-Ready Universities	
– <i>S A Kori</i>	25
4. Inclusive and Equitable Quality Education in Higher Education Institutions	
– <i>Y S Siddegowda</i>	31
5. Ensuring Inclusive and Equitable Quality Education in India: The Way Out	
– <i>Hema Raghavan</i>	37
6. National Education Policy-2020 and A Roadmap for Social Inclusivity	
– <i>Bhumika Rathore and Meera Mathur</i>	41
7. Sustainable Development Goal 4 – Quality Education: A Comparative Study of States/Union Territories [#]	
– <i>Inchara P M Gowda and J Madegowda</i>	45
8. Innovation and Enterprising Mindset with Integral Education	
– <i>Mahua Bhattacharjee</i>	52
9. Sustainable Development: In Education and Application	
– <i>Sheetal Twari</i>	54
10. Higher Education Institutions as Learning Institutions: Way towards Sustainable Education	
– <i>G John</i>	57
11. Inclusive Education: Policy Provisions and Challenges Ahead [#]	
– <i>Sunita K Sharma and Eisha Kannadi</i>	60
12. Business Schools in India: Principles of Responsible Management Education and Radical Transformational Leadership to Realize United Nations SDGs	
– <i>Mercia Selva Malar</i>	69
UNIVERSITY NEWS, 60(10) MARCH 07-13, 2022	5

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

University News Vol.60, No. 10, 06-13 March, 2022

13. Realizing Sustainable Development Goals through Quality Indicator Framework – <i>Ajit Mulajkar, Naresh Pinamkar and Prakash Rodiya</i>	76
14. Inclusive Education: Promoting Inclusion and Equity of Under Represented Groups* – <i>Priyanka Yadav and Pravendra Singh Birla</i>	79
15. The Importance of a Mindfulness and Compassionate Curriculum in India's Educational System – <i>Surjit Singha and Ranjit Singha</i>	85
16. Decade of Action: Taking Sustainable Development Goal 4 from Global to Local	88
Communication	
Decoding the Comprehensiveness and Relevance of Academic Hypothesis of Prof. Bhushan Patwardhan – <i>S C Sharma</i>	92
Convocation Address	
– Academy of Maritime Education and Training (AMET) University, Chennai	94
Campus News	97
Theses of the Month (Science & Technology)	01
Advertisement	06

Opinions expressed in the articles are those of the contributors and do not necessarily reflect the views and policies of the Association

University News Vol.60, No. 11, 14-20 March, 2022

UNIVERSITY NEWS
Vol. 60 March 14-20
No. 11 2022
Price Rs. 30.00

A Weekly Journal of Higher Education
Published by the Association of Indian Universities

In This Issue	
ITEMS	PAGE
Articles	
Outcome Based Education : Time to Restructure the Curriculum in Higher Education	3
Assessment of Teachers through Career Advancement Scheme of University Grants Commission: Concerns and Disparities	6
Should the Nation Go Ahead with Introduction of 4 Year Integrated Teacher Education Programme in a Multidisciplinary Environment?	10
A Bequest of Indian Women English Writers	15
An Empirical Study on Quality Related Issues in Higher Education*	19
Convocation Address	
Tezpur University, Tezpur	27
Campus News	29
Theses of the Month (Social Sciences)	34
Advertisement	38

New Subscription Tariff (Effective April 01, 2020)				
	Inland		Foreign	
	Academics/ Students	Airmail (at residential address only)	Surface Mail	Surface Mail
	Rs.	Rs.	US\$	US\$
1 year	1250.00	500.00	210.00	170.00
2 years	2200.00	900.00	400.00	300.00

Subscription is payable in advance by Bank Draft/MO only in favour of Association of Indian Universities, New Delhi.

Opinions expressed in the articles are those of the contributors and do not necessarily reflect the views and policies of the Association.

Patron:

Col. Dr. G. Thiruvassagam

Editorial Committee Chairperson:

Dr (Ms) Pankaj Mittal

Editorial Committee:

Dr Baljit Singh Sekhon

Dr Amarendra Pani

Dr Youd Vir Singh

Editor:

Dr Sistla Rama Devi Pani

#Let'sBeatCoronaTogether

UNIVERSITY NEWS, AJMER
28/3/2022

Outcome Based Education : Time to Restructure the Curriculum in Higher Education

Selvakumar S* and Elangovan K**

It is since three decades the concept of Outcome Based Education (OBE) was proposed by William G Spady (1988), an Educational Psychologist. He defined it as Outcome Based Education means focusing and organizing school's entire programs and instructional efforts around clearly defined outcomes we want all students to demonstrate when they leave school. One can figure out two crucial aspects from the definition; explicitly set out goals to which students stand up to prove and illustrate on completion of the educational program. Another definition by Tucker (2004), reads as OBE is a process that involves the restructuring of curriculum, assessment and reporting practices in education to reflect the achievement of high order learning and mastery rather than the accumulation of course credits. Even in the preceding definition, emphasis is more on a conscious effort to altering the curriculum to suit the goal of accomplishing elevated level of skill and knowledge rather than merely aiming to procure marks/ grades/credits. No doubt, marks and credits are necessary condition to fulfill the requirements, but sufficient condition is to succeed in gaining command over knowledge, skills and attitudes.

Conceptual Clarification

There are a few concepts, which are the components of OBE, need certain description before moving on to narrate the characteristics, and criticisms. Concepts like student-centric, teacher-centric, program outcome, program-specific outcome, learning outcome, course outcome, have to be put in perspective for better application of the same. The OBE is, fundamentally a student-centric learning model. This means teachers formulate the content that is curriculum, to devise the method of teaching, knowledge delivery and finally assessment, keeping firmly in mind the end point. Students, the main stakeholders are at the center stage. Corollary to this is learning outcomes; what is expected of a student in this context is to be able to know, understand and do. A possible interpretation could merely know the subject may be insufficient but a follow up of comprehension with a mental grasp would help doing something to either solve a problem or overcome a hurdle.

Before moving on to programme outcome and course outcome, it is important to know the meaning of outcome in the context of OBE. According to Spady G W, outcomes denote learning results from students to demonstrate at the end of the learning process.

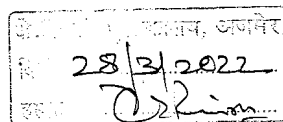
*Dean, School of Engineering and Technology, Dhanalakshmi Srinivasan University, Tiruchirappalli-621 112 (Tamil Nadu)

** Controller of Examinations, Dhanalakshmi Srinivasan University, Tiruchirappalli- 621 112 (Tamil Nadu)

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

University News Vol.60, No. 12, 21-27 March, 2022

Table of Contents



Editorial	7
Conceptualising the National Seminar of Vice Chancellors on Realizing Sustainable Development Goals through Higher Education Institutions Pankaj Mittal and Sistla Rama Devi Pani	9
University of Mysore: A Profile	15
1. Agenda SDGs for Higher Education Institutions in India – Rajesh Tandon, Niharika Kaul and Anshuman Karol	17
2. Demystifying Sustainable Development Goals through Higher Education Opportunities – Kahlon L K and Dhawan Vibha	23
3. Sustainable Development Goals in Gandhi's Thought Perspective – Sudarshan Iyengar	27
4. Engagement of Universities with Society to Realise SDGs – Ajay Kumar Singh, Vijaya Lakshmi Mohanty	46
5. Gandhian Approach to Education: Tool to Realise the Goals of Sustainable Development – T S N Sastry	58
6. Mainstreaming Youth Development into Educational Process – Saket Kushwaha and Kaushalendra Pratap Singh	64
7. Realizing Sustainable Development Goals for Securing Well-Being – Upinder Dhar and Santosh Dhar	67
8. Managing Distress and Disruptions in Higher Education: An Optimistic Approach to Sustainable Teaching & Learning in India – Raj Singh, Payel Sen	69
9. A Sustainable Pathway of Biodiversity and Livelihoods – Chittaranjan Sarangi	76
10. Let the Universities Go Green – S Rama Devi Pani	90
11. Sustainable Development Goals-4: Through Teacher Education Programmes in India – S K Yadav	95
12. Managing Sustainable Change in Higher Education Institutions: Towards Phronetic Vision Development – Shiv K Tripathi	100
13. Quality in Higher Education – Hema Raghavan	106
UNIVERSITY NEWS, 60(12) MARCH 21-27, 2022	5

LIBRARY, RIE, AJMER
CURRENT CONTENT ALERT SERVICES

University News Vol.60, No. 12, 21-27 March, 2022

14. Education for Gender Equality – <i>M Sen Gupta</i>	110
15. United Nations Sustainable Development Goals : A Foundation for Reimagining Indian Universities – <i>Mercia Selva Malar</i>	113
16. Good Health and Well Being – <i>K N Guruprasad</i>	120
17. Life Skills Training for Undergraduate Students to Achieve Sustainable Development Goals – <i>Prerna and Anjali Bajpai</i>	122
18. Rethinking Management Education for Sustainable Happiness and Wellbeing: Interview with Dr Saamdu Chetri – <i>Ayatakshree Sarkar</i>	127
19. Realizing Sustainable Development Goals through Higher Education Institutions for Promoting Industrialization, Employment: The Need for Entrepreneurs to Meet the Goals – <i>Pradip Himmatrao Barad, Sunita Kalakhe</i>	132
20. The Road Ahead for Higher Education Institutions in India towards the 2030 Agenda for Sustainable Development Goals Amidst the COVID-19 Pandemic – <i>F X Lovelina Little Flower and J S Santhosh</i>	138
21. Role of Spiritual Factors in World Happiness Index – <i>A S Rana and Sushmita Kushwaha</i>	143
Convocation Address – Dayalbagh Educational Institution	147
Campus News	151
Theses of the Month (Humanities)	157
Advertisement	160

Opinions expressed in the articles are those of the contributors and do not necessarily reflect the views and policies of the Association
