

Journal of STEM Education: Innovations and Research

Volume 12 • Issue 5 & 6 • July – September 2011

Editorial Review Board	2
International Editorial Advisory Board	3
Reviewer Appreciation	4
Editorial	5
Guest Editorial	6
FEATURES	
Uncovering Students' Preconceptions of Undergraduate Research Experience Omolola A. Adedokun and Wilella D. Burgess	12
Effects of integrative approaches among science, technology, engineering, and mathematics (STEM) subjects on students' learning: A preliminary meta-analysis Kurt Becker and Kyungsuk Park	23
Project WISE: Building STEM-Focused Youth-Programs that Serve the Community Gregory DiLisi, Keith McMillin and Margaret Virostek	38
Surprising Possibilities Imagined and Realized through Information Technology: Encouraging High School Girls' Interests in Information Technology Anna Forssen, Tonya Lauriski-Karriker, Alka Harriger and Barbara Moskal	46
A New Undergraduate Curriculum in Mathematical Biology at the University of Dayton Muhammad Usman and Amit Singh	58
Solving the Acoustic Problem in Polyvalent Hall at Mauritius: Global Design Challenge Facing Larsen & Toubro, Limited Chetan S. Sankar, P.K. Raju, Ramachandraiah Alur, Rajan Venkateswaran, Rajasekar Elangovan	67
TeleEducation Initiatives for Sub-Saharan Africa: The Case of The African Virtual University in Kenya Lakisha L. Simmons, Irene Mbarika, Victor W. Mbarika, Carlos A. Thomas, Clive Tsuma, Tamiara L. Wade, and DerKirra Wilkerson	78
Instructions for Authors	91
Contribution Form	92

The Journal of STEM Education: Innovations and Research (ISSN 1557-5284) is published by The Institute for STEM Education and Research, P.O. Box 4001, Auburn, AL 36831. www.jstem.org The Institute for STEM Education and Research is a non-profit entity. Periodicals postage rate paid at Auburn, AL and additional mailing offices.

CONTRIBUTIONS are greatly appreciated and are tax-exempt.

PERMISSION FOR USE: The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works or for resale. Specific written permission must be obtained from the publisher for such copying.

Copyright © 2009 by The Institute for STEM Education and Research. It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reports, photographic reproductions, microfilm or any other reproduction of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, photocopying, recording or otherwise, without permission in writing from the copyright holder.