

RESUME (updated)
(PETER MCCARTHY)
818 North Highland Ave, Apt. 14
Jackson TN 38301

APRIL 07, 2019

Education: Professional Preparation

Enchi Teacher Training College, Enchi, Education, 4-Year Teacher Certificate "A", 1979
Advanced Teacher Training College, Winneba, 3-Year Teacher's Diploma in Mathematics, 1987
University of Cape Coast, Cape Coast, BED Mathematics, 1994
University of Cape Coast, Cape Coast, M.Phil. (Math, Course work), 1998
University of Alberta, Edmonton, MED. Math, 2002
University of Toronto, Toronto, Doctor of Philosophy, Math Education, 2007

Key Global Achievements/Awards

- Recipient of Global Pythagoras Research Award-2015 in Applied Mathematics for Innovation in algorithmic computation of compound subtraction by way of Base Complement Additions (BCA). International Agency for Standards and Ratings (IASR), 2015. [Link: \(http://usaneWSCorp.blogspot.ca/2016/02/pythagoras-research-award-in-applied-mathematics-dr-peter-mccarthy.html\)](http://usaneWSCorp.blogspot.ca/2016/02/pythagoras-research-award-in-applied-mathematics-dr-peter-mccarthy.html)
- Fellow, Directorate of Mathematics, International Agency for Standards and Ratings (IASR)
- Nominated one of the World's 500 Most Influential Mathematicians for Year 2015. (International Agency for Standards and Ratings (IASR), 2015).
- Lifetime Membership Award and Fellow of International Agency for Standards and Ratings (2015).

Summary of Achievements/Awards

- Recipient of 5 academic awards (PhD, 3-Year M.Ed., 3-Year Advanced Teacher Training; 4-Year Cert 'A' Teacher Training; B.Ed. (Math)).
- At least 22 years of experience in academic and research environments
 - 10+ years of research environment (U Toronto 2003-2007; U Alberta 1999-2002; Advanced Teachers Training 1984-1987+ Teaching and Research)
 - At least 12 years of teaching in higher education (Lane College 2015- present; Lane College 2007-2013; Ada Teacher Training College 1987-1990)
- Published several papers, book chapters, and book chapters.
- Peer Reviewer (4 International Conference Proceedings + other local/regional reviews)
- Member of 3 professional organizations (IASR, PME-NA, CMESC).
- Graduate Assistantship 2004-2005 (University of Toronto)
- Program Assistantship, Research, 2003-2004 (University of Toronto)
- 1999-2001 Graduate Awards, Graduate Assistantship: (Department of Secondary Education, University of Alberta, Canada)
- 15 years of supervising experience (Supervising at: The Ada Teacher Training College 1987-1990; University of Toronto Work-Study Graduates 2003-2007; Lane College SITES-M

Teachers 2008-2013; Lane College Math Faculty 2008-2011; (Interim Chair) Lane College Physical Sciences Division fall 2011)

- 11 refereed Journal publications
- 10 oral conference presentations

Contributed to Teacher Professional Development in Tennessee Elementary Schools Focus on mathematics (SITES-M/FTTT or SITES-M, 2008-2012)

Teaching Appointments

Assistant Professor of Mathematics, Lane College, Jackson, TN, November 2015 to present

Assistant Professor of Mathematics, Lane College, Jackson, TN, August 2007 to 2013

Mathematics Instructor, Ada Teacher Training College, Accra Region, Ada, 1987-1990

Mathematics Teacher, Diabene Sec.-Tech. High School, Western Region of Ghana, Diabene, 1995-1998

Class Teacher, Ekurabadze Catholic School, Ekurabadze, Central Region of Ghana 1979-1984

Publications

1. Harris, K., Sithole, A., Kibirige, J., McCarthy, P. (2018). The Next Generation Science Standards and the Quest Towards Culturally Responsive Pedagogy: Perceptions of K-12 Educators. *American Scientific Research Journal of Engineering, Technology, and Sciences (ASR)* ISSN (Print) 2313-4410, ISSN (Online) 2313-4402.

2. McCarthy, P., Harris, H., Sithole, A. (2018). Open Educational Resources and Prior Learning Assessment: Online Educational Programs. ISBN13: 9781522552550; ISBN10: 1522552553; EISBN13: 9781522552567; DOI: 10.4018/978-1-5225-5255-0.ch001. Open Educational Resources and Prior Learning Assessment: Online Educational Programs (pages 1-21) see <https://www.igi-global.com/gateway/book/187227> (published by IGI on April 17, 2018)

3. Sithole, A., Chiyaka, E. T., McCarthy, P., Mupinges, D. M., Bucklein & Kibirige, J. (2017). Student attraction, Persistence and Retention in STEM program: Success and continuing challenges. *Canadian Center of Science and Education, Higher Education Studies, Vol7 (No 1)*, ISSN1925-4741, E-ISSN 1925-475X

4. Chiyaka, E. T., Kibirige, J., Sithole, A., McCarthy, P., Mupinges, D. M. (2017). Comparative analysis of participation of teachers of STEM and non-STEM Subjects in professional development. *Journal of Education and Training Studies* ISSN 2324-805X (Print) ISSN 2324-8068 (Online). DOI: <https://doi.org/10.11114/jets.v5i9.2527>

5. McCarthy, P. (2016). Investigating teaching and learning compound subtraction: Comparing the decomposition and base complement additions strategies. *The Journal of Mathematics, Photon* 107, 136-149. Photon Ignitor: ISJN83527329D821625042016

6. McCarthy, P., McCarthy, P., Emmanuel, G., Baah-Korang, K. (2015). Multivariate Analysis of Academic Performance of Ghanaian Secondary School Students: A Case Study of a Senior High School in Ghana. *International Inventions Journals Edu. Gen. St. Vol.1 (1):9-17*

7. Baah-Korang, K., Gyan, E., McCarthy, P., McCarthy, P. (2015). Gender differences in participation in elective mathematics of senior secondary school students in Ghana. *Journal of Education and Practice*, ISSN 2222-1735 (Paper) ISSN 2222-288X (Online) Vol.6, No.8, 2015
8. McCarthy, P., (2016). *The role of mental computation and estimation: Student inventions*. Lambert Academic Publishing. OmniScriptum GmbH & Co. KG. Bnhofstrabe 28, 66111 Jarbrucken, Germany. ISBN-13: 978-3659918483; ISBN- 10: 3659918482; EAN: 9783659918483 (link: <https://www.vivaletra.com/store/gb/book/the-role-of-mental-computation-and-estimation/isbn/978-3-659-91848-3>)
9. McCarthy, P., Sithole, A., McCarthy, P., Cho, J., Gyan, E. (2016). Teacher questioning strategies in mathematical classroom discourse: A case study of two grade eight teachers in Tennessee, USA. *Journal of Education and Practice*, ISSN 2222-1735 paper, 2222-288X online, Vo7, No.21, 2016
10. Baah-Korang, K., E., McCarthy, P., McCarthy, P., Gyan E. (2015). Gender differences in elective mathematics achievements of senior secondary school students (SSS3) in Central and Western Regions of Ghana. *International Inventions Journal of Education and General Studies*, Vol. 1(2),18-24, 2015 ISSN 2465-7069
11. McCarthy, P. (2004). Investigating teaching and learning subtraction that involves renaming using base complement additions. In McDougall, D.E & Ross, J. A. (Eds.) (2004). *Proceedings of the twenty-sixth annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Toronto: OISE/UT, Volume 3, pp. 1393-1395. [ISBN 92-990027-0-3]

Other Activities

- Organizing Committee Chair, Annual High School Math Contest: Lane College “Block 10” project (Started February 24, 2018)
- Chaired ‘Leadership Team Meeting’ for Strengthening Instruction in Tennessee Elementary Schools – Focus on Mathematics (SITES-M), hosted by Lane College (February 10, 2012). Participants included Principals, Assessment Coordinators, Campus Directors, representatives of Education Testing Services of America (ETS) in Tennessee, and representatives from LeMoyene-Owen College in Memphis.
- Chaired ‘Weekend Workshop’ for Strengthening Instruction in Tennessee Elementary Schools –Focus on Mathematics hosted by Lane College (March 03, 2012)- to address the achievement gap in elementary student math. Participants included Principals, Assessment Coordinators, Campus Directors, representatives of Education Testing Services of America (ETS) in Tennessee, and representatives from LeMoyene-Owen College in Memphis.
- Assessment and Evaluation Team Leader for Teacher Observation for the SITES-M (2009- 2012)
- Attended and participated in Teacher Professional Learning Community (PLC) meetings for teacher professional development in the SITES-M participating schools in Jackson TN

- Presented on “Investigating teaching and learning subtraction that involves renaming using base complement additions.” *PME-NA annual conference, Toronto, Ontario, October, 2004.*
- Presented on “Constructivism: A view of Classroom Teaching and Learning in Mathematics” at the Imperial Oil National Center for Mathematics, Science and Technology Education Lunch Discussion in Edmonton, Alberta, March, 2000.

Professional Affiliations

- International Agency for Standards and Ratings (IASR) Fellow, Mathematics Directorate, IASR (Lifetime membership)
- International Group of the Psychology of Mathematics Education, North American Chapter (PME-NA) (member)
- Canadian Mathematics Education Study Group (CMESG) (Member)
- Mathematical Association of Ghana (MAG) (Member)

Other Synergetic Activities

- Lane College Physical Sciences Division NSF S-STEM 183396 GRANT APPLICATION: STEM Scholarship Excellence Project: Exploring the Effect of Psychosocial Factors on STEM and Historical Black Colleges
- Senior Personnel of the S-STEM grant. Approved in February 2019
- NSF HRD# 0929257: Funded for 2009-2014 in an amount of \$2.4Million approximately for HBCU-UP implementation project: enhancing Potentials of Lane College undergraduates in STEM program
- STEM center Director

References

Upon Request