INTERNATIONAL CONSORTIUM FOR RESEARCH IN SCIENCE & MATHEMATICS EDUCATION (ICRSME)

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PRESENTATION OUTLINE

- WHAT IS ICRSME?
- HOW DO WE BUILD GENUINE INTERNATIONAL COLLABORATION?
- HOW CAN YOU ENGAGE WITH ICRSME?
The mission of ICRSME is the advancement of science and mathematics education in participating countries. This mission is based on the premise that all people can benefit from the knowledge and experiences of their local, national, and international colleagues.
GOALS OF ICRSME

Designing, facilitating, and conducting research and development toward the improvement of science and mathematics teaching and learning

Developing academic exchange programs between universities in order to broaden the educational experiences of students and faculty

Acting as an impetus in establishing ties between the local, state, and national educational associations in the participating countries

Identifying the particular science and mathematics education needs and issues facing current and emerging under-represented populations in the participating countries and directing research and development to address those needs and issues

Promoting collaborative efforts among scholars in the participating countries
1986 Port of Spain, Trinidad and Tobago  
1987 San José, Costa Rica  
1991 Merida, Mexico  
1992 San Juan, Puerto Rico  
1994 Concepción, Chile  
1996 Belize City, Belize  
1998 Port of Spain, Trinidad and Tobago  
2000 San José, Costa Rica  
2002 Panama City, Panama  
2004 Concepción, Chile  
2006 Nassau, The Bahamas  
2008 Quito, Ecuador  
2010 La Manzanilla, México  
2014 Granada, Nicaragua  
2019 San Jose, Costa Rica  
2021 Virtual Conference
MOVING FORWARD

HOW DO WE WORK TOWARDS THE MISSION AND GOALS OF ICRSME?
GENUINE COLLABORATION

- COMMUNITIES OF PRACTICE (WENGER ET AL., 2002)
  - DOMAIN OF KNOWLEDGE – DEFINES A SET OF ISSUES
  - COMMUNITY OF PEOPLE WHO CARE ABOUT THE DOMAIN
  - SHARED PRACTICE
- TWO CRITICAL PREMISES (QUEBEC FUENTES & SPICE, 2017)
  - SHARED GOAL
  - CO-CONSTRUCTION OF KNOWLEDGE
- CONTRIBUTING FACTORS
  - CONFLICT
  - COMMUNICATION
  - TRUST
  - REFLECTION
CHALLENGES FOR INTERNATIONAL COLLABORATION

- LOGISTICAL CHALLENGES
  - TIME DIFFERENCES
  - DIFFERENT ACADEMIC CALENDARS
- FIVE SIGNS OF SOCIAL INJUSTICE (ATWEH & KEITEL, 2007)
  - EXPLOITATION
  - MARGINALIZATION
  - POWERLESSNESS
  - CULTURAL IMPERIALISM
  - VIOLENCE
Who is included in the international collaboration?

How are the various members included in the activity?

Are decisions being made in a just and fair way?

Are the means to work together effectively and with equal rights collaboratively considered?

Who benefits from the international collaboration?

Whose views are expressed in the products of the international collaboration?

Whose knowledge is being represented in the international collaboration?
BECOME A FRIEND OF ICRSME
QUARTERLY NEWSLETTER

Message from Mark and Sarah: Building the ICRSME Community

Hello ICRSME Friends,

ICRSME has always been a supporting and welcoming environment. Our goal is to continue to build this community through virtual conferences, international consultancies, publication of EJRSM and the ICRSME Newsletter, and opportunities to serve in leadership roles. We are happy to announce new members of the leadership team (p. 117) and invite you all to consider leadership roles as well (p. 120).

In this issue, we have an announcement for the upcoming 2022 ICRSME Virtual Conference (p. 5). Like many mathematics and science organizations, we reverted to a virtual conference in 2021 due to the COVID-19 pandemic. However, we plan to make this a tradition for ICRSME moving forward. We see the virtual conference as an opportunity to connect with our ICRSME friends in the years between the biennial, face-to-face international conferences.

We have received many grant proposals (both synchronous and asynchronous) for the 2022 ICRSME Virtual Conference and have secured dynamic plenary speakers. The Early Career Lia is now active and we hope you will join us for this collaboration. We also hope you will invite your professional colleagues and graduate students to attend as well.

Mark Wilson
Dallas Baptist University
Sarah Quebe Fuentes
Texas Christian University

IN THIS ISSUE

MESSAGE FROM MARK AND SARAH 1
EJRSM 25(3) SPECIAL ISSUE ANNOUNCEMENT 2-4
FEATURE ARTICLE 5-8
2022 VIRTUAL CONFERENCE 9
GRADUATE STUDENT AMBASSADOR PROGRAM 10
MENTORSHIP PROGRAM 10
ICRSME LEADERSHIP 11-12
ANNOUNCEMENTS FROM ICRSME FRIENDS 13-14
ONLINE TEACHING TIPS 14
ICRSME & 3MAT 15
CALL FOR EJRSM MANUSCRIPTS 16
CALL FOR NEWSLETTER CONTRIBUTIONS 17
SUPPORT ICRSME 18

Feature Article
SIMIODE – A Community of Practice and Modeling Activities with Differential Equations

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PLENARY SPEAKERS

▪ Dr. Grace Bascope, Botanical Research Institute of Texas (BRIT)
  ▪ Lessons Learned from Collaborative Place-Based Learning Programs in Yucatan, Mexico and Belize

▪ Dr. Marisín Pecchio, Instituto de Investigaciones Científicas y Servicios de Alta Tecnología de Panamá
  ▪ INDICASAT AIP - A Model Institute for Innovation in Research and Education
INVOLVEMENT WITH EJRSME

Become a Reviewer

Submit a Manuscript
UPCOMING CONSULTATION

ICRSME XVI Consultation 2023
Panama