



International Council of Associations for Science Education

*Supporting and promoting science education internationally*  
**The ICASE Newsletter**

*January/February 2023*

## Welcome to the ICASE January/February 2023 Newsletter!

Welcome to the ICASE January/February 2023 Newsletter! The ICASE Newsletter is a publication containing current information about ICASE initiatives conducted by ICASE and her member organisations, and topics of interest in the field of science education. The table of contents for this issue is in the right-hand column.

The International Council of Associations for Science Education (ICASE) was established in 1973 by leadership at the United Nations Educational, Scientific and Cultural Organization (UNESCO) to link national science teacher associations and to extend and improve science education for children and young people throughout the world. Today, ICASE is a network of science teacher education associations, institutions, foundations and companies, working together to promote science and technology education internationally. ICASE facilitates communication and cooperation at national, regional, and international levels. The ICASE Strategic Plan (2013-2023) calls for ICASE member organisations to adopt a position of Excellence and Leadership in Science Education.



International Council of Associations for Science Education

Over the past 50 years, more than 200 organizations have been members of ICASE. Currently, there are 32 organizations from 30 countries/regions contributing to the financial administration of ICASE. [www.icasonline.net/membership.htm](http://www.icasonline.net/membership.htm)

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## ICASE Annual Membership Update

**Please renew your organizational ICASE member fees!**

We are updating our records, please complete the ICASE member information sheet found on our membership page: <https://www.icaseonline.net/membership.html>

Membership fees are due January 1st each year and three-year options are available at a reduced rate! Membership renewal is easy and can be done totally online on the ICASE Website at: <http://www.icaseonline.net/membership.html> and a receipt will be sent to you. If your organization needs to receive an invoice, please notify us to request an invoice.

ICASE provides opportunities for member organizations and their representatives to promote excellence and innovation in science teaching and learning for all through:

- connections to the members of other science organizations around the world;
- opportunities to serve in ICASE international leadership positions on standing committees and in international research initiatives;
- communication venues to disseminate information internationally to the members of international science organizations through the ICASE listserv, newsletter and peer-reviewed ICASE journal;
- collaborative funding opportunities to promote science education at regional levels; and
- organization of ICASE World Conferences, regional events, and workshops providing opportunities for professional development and networking.

### **How are your membership fees put to use?**

ICASE membership fees are used for financial support of regional activities.

Approval for funding will be considered based on a written submission (request for funding support) to the ICASE secretary, which clearly indicates how the activity meets the following criteria.

All financial support for activities will be approved by the ICASE management committee, in consultation with the Executive Committee, and is subject to the availability of funds (generated by ICASE membership fees).

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### **Procedure to request financial support of regional activities**

1. The applicant organisation must be a current financial member of ICASE.
2. The activity must promote science education at a regional level.
3. The applicant organisation should provide a description of the activity and the potential benefits (including the extent of benefits - number of beneficiaries, and how the activity meets the short-term and long-term goals of promoting science education in that region).
4. ICASE must be acknowledged as a sponsor on all publicity material, including the website advertising the initiative. The ICASE logo must be displayed on all materials associated with the funding.
5. Funding requests will be accepted for the following range in US dollars: \$500 – \$2,000. These funds are intended to cover special initiatives associated with activities occurring in benefit of each region.
6. The applicant organisation must provide a budget for the activity including other sources of funding.
7. The applicant organisation must have an institutional bank account for the transfer of funds.
8. The applicant organisation must nominate a person in their organisation who will take responsibility for the activity, all expenditures and reporting (via presentation and in writing) at the subsequent ICASE World Conference.

The report may be presented via video conferencing if the organization is unable to fund a member to attend an ICASE World Conference. Please note that the ICASE Management Committee reserves the right to approve funding for second and subsequent applications from the same region within a three-year period, even when the application may come from a different organisation.

### **BECOMING A MEMBER ORGANISATION**

ICASE invites national, sub-national and multi-national organisations interested in the promotion of science and technology education to join its worldwide network. Organisations eligible to join are Science Teacher Associations (STAs), Science Societies, Institutes, Universities (or University Departments/Faculties), Industries, Companies, Centres and Museums. These organisations may have a sole interest in science education (or in one of its sub-disciplines such as biology, chemistry, physics, Earth sciences, etc.) or have wider interests, one of which is science education. Following the ICASE Constitution, requests for new members, whether full or associate, are approved by the ICASE Executive Committee.

### **ICASE provides opportunities for member organizations and their representatives:**

- to promote excellence and innovation in science teaching and learning for all through
- connections to the members of other science organizations around the world;
- to serve in ICASE international leadership positions on standing committees and involvement with international research initiatives;
- to disseminate information internationally to the members of international science organizations through the ICASE listserv, newsletter and peer-reviewed ICASE journal;





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## **ICASE Calls for New President-elect and Executive Committee Members**

ZHANG BaoHui

The International Council of Associations for Science Education (ICASE, <https://www.icasonline.net>) will hold its 2023 annual conference from Mar. 27-30 in Dubai, UAE. During the general assembly, representatives from member organizations will vote for the organization's next President-elect.

### **I. Eligibility**

1. A representative from an ICASE member organization with good standing
2. Evidence of international impact
3. Experience in leadership
4. Not from an European member organization

### **II. Requirements for self or peer recommendation**

1. A nomination letter from the organization the candidate represents
2. A CV
3. A personal statement for the position
4. Need to show up at the Dubai ICASE2023 conference, especially for the general assembly voting session to present your plan for leading ICASE and receive questions and provide answers

III. Furthermore, there are also vacancies for committee chairs/co-chairs, committee members, Science Education International editor(s), associate editors, and editorial board members

### **IV. Deadline and Contact Person**

Deadline: before Dubai conference, by Mar. 18, 2023

Contact: Dr./Prof. BaoHui Zhang, ICASE president, at [icase2017bhzhang@163.com](mailto:icase2017bhzhang@163.com)

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## **ICASE2023 Conference (Dubai) Calls for Sponsors, Textbook Publishers**

### **& Science Lab Equipment Suppliers**

ICASE2023 (Dubai) welcomes science textbook publishers & Science lab equipment suppliers to set up your stands and organize forums at the conference. The conference also welcomes *Gold, Silver, and Bronze Medal* Sponsors, for details about the criteria and benefits, please contact: Dr./Prof. BaoHui Zhang, ICASE president, at [ICASE2017BHZhang@163.com](mailto:ICASE2017BHZhang@163.com). Please indicate your intention, name and organization in your email subject section to avoid delay.



## **ICASE Welcomes New Members**

ICASE welcomes three new full members, they are: Suzhou AINIU Science Education Equipment Limited, Jiangsu Province, Zhejiang Normal University, Zhejiang Province, and Guilin Chuangfang Education Technology Development, Guangxi Zhuang Autonomous Region, China. There are more members from China, Malaysia, and Sri Lanka are going to submit their ICASE member application. People who are interested in joining ICASE please contact ICASE membership committee interim chair, Prof. Teresa Kennedy or ICASE regional representatives around the world, more details about contact information can be found here:

[https://www.icaseonline.net/com\\_2.html](https://www.icaseonline.net/com_2.html).

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### ICASE Spotlight

Citation: Akpan, B., Çavaş, B., & Kennedy, T. J. (Eds.) (2023). *Contemporary issues in science and technology education*. Switzerland: Springer Nature. ISBN 978-3-031-24258-8.

The book includes **21 chapters** with contributions from **32 authors** representing **11 countries** (Germany, Indonesia, Ireland, Mauritius, Mexico, New Zealand, Nigeria, Sweden, Thailand, Turkey, UK, and USA). The book contents are below.

#### Introduction:

**Chapter 1:** A reflection on contemporary issues in science and technology education – Ben Akpan

#### Section I Philosophical foundations and curriculum development

**Chapter 2:** Nature of Science and Nature of Technology – Steven S. Sexton

**Chapter 3:** The theory of evolution – Ben Akpan

**Chapter 4:** STEM education as a meta-discipline – Teresa J. Kennedy & Michael R.L. Odell

**Chapter 5:** Curriculum design in science and technology education at international level – Declan Kennedy

**Chapter 6:** Assessment and evaluation in science and technology education – Bulent Çavaş, Pinar Çavaş & Sengul Anagun

**Chapter 7:** Mathematics in the service of science and technology education – Ajeevsing Bhooloa & Ajay Ramful

**Chapter 8:** Language in science and technology education – Metin Sardag, Gokhan Kaya & Gultekin Cakmakci

**Chapter 9:** The real and virtual science laboratories – Shakeel Mohammad Cassam Atchia & Anwar Rumjaun

#### Section II Sustainable development, technology, and society

**Chapter 10:** Sustainable development goals and science and technology education – Teresa J. Kennedy & Aletha R. Cherry

**Chapter 11:** In the beginning: Interpreting everyday science – Sue Dale Tunnicliffe

**Chapter 12:** Indigenous knowledge and science and technology education – Robby Zidny, Jesper Sjöström & Ingo Eilks

**Chapter 13:** Public understanding of science and technology – Janchai Yingprayoon

#### Section III The learning sciences and 21<sup>st</sup> century skills

**Chapter 14:** Educational psychology – Keith Taber

**Chapter 15:** Science and technology teaching strategies – César Mora

**Chapter 16:** Pedagogical content knowledge in science and technology education – Louise Lehane

**Chapter 17:** Stimulating students' mechanistic reasoning in science and technology education through emerging technologies – Vickren Narrainsawmy & Fawzia Bibi Narod

**Chapter 18:** Problem-solving in science and technology education – Bulent Çavaş, Pinar Çavaş & Yasemin Özdem Yılmaz

**Chapter 19:** Creativity and innovation in science and technology education – Mehmet Aydeniz & Michael Stone

**Chapter 20:** Collaboration and communication in science and technology education – Michael R.L. Odell, Kelly Dyer & Mitchell D. Klett

#### Afterword

**Chapter 21:** Frameworks for teaching science and technology – Ben Akpan

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## **7TH ICASE WORLD CONFERENCE ON SCIENCE AND TECHNOLOGY EDUCATION DUBAI, UAE 27 – 30 MARCH 2023**

**Dr. Ben Akpan, Chair World Conferences, [ben.b.akpan@gmail.com](mailto:ben.b.akpan@gmail.com)**



**Conference Theme: STEM Education Solutions to Complex Global Challenges**

### **Conference Strands**

#### **A. STEM Education Policy**

- A1. Public - Private partnerships in STEM education
- A2. Curriculum development, evaluation, and assessment
- A3. STEM education policy trends and reforms
- A4. International comparative programs (PISA, TIMSS, ROSES, etc.)

#### **B. STEM Education Impact**

- B1. Innovation and entrepreneurship in STEM education
- B2. Sustainability and environmental education
- B3. Career awareness in STEM-related fields

#### **C. STEM Teaching Practices**

- C1. Teacher education and professional development
- C2. STEM teachers and the role of professional associations in promoting 21st century skills
- C3. Textbook's standards in STEM education
- C4. Cultural, social and gender issues
- C5. Digital technologies in STEM education
- C6. Best STEM education practices

#### **D. STEM Education Pedagogy and Projects**

- D1. Collaboration between formal and non-formal STEM learning contexts
- D2. STEM education funded projects (NSF, European Union, National Agencies, Erasmus Plus, etc.)
- D3. Engineering education research and practice

#### **E. Others. We welcome creative topics that are relevant to the conference theme.**

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### **Keynote speakers**

**Dr. BaoHui Zhang**, Shaanxi Normal University, China

#### Discussion Points

1. The latest curriculum standards for compulsory education, including science education standards in China
2. The challenges facing China's science teachers
3. Development and implementation of a MOOC for Chinese Teachers in Interdisciplinary/Integrated (STEM) Education

**Dr. Hassan Hamid Tairab**, The United Arab Emirates University, UAE

#### Discussion Points

1. The future vision for education, a pressing goal, was to uplift science, technology, engineering, and mathematics (STEM) education through investments in research, innovation, science, and technology.
2. The status and current trends of STEM education internationally and regionally
3. How STEM education priorities, identified by international and regional institutions, are reflected in practice.

**Dr. Fazal Malik**, Amity University, Dubai

#### Discussion Points

1. The Post Covid-19 scenario has forced us to think of a more holistic approach to education that helps find functional, reflective, and human-centered solutions.
2. The demand for a 'STEM Education' contextualized within the future is full of innumerable possibilities and awe-inspiring challenges.
3. Developing a more inclusive, interdisciplinary, and contextualized approach to STEM Education

**Dr. Sibel Erduran**, ESERA President, University of Oxford, UK

#### Discussion Points

1. Misinformation is being propagated about issues related to science and socio-scientific issues.
2. Secondary students' acquisition of skills where the credibility of claims is evaluated relative to evidence and rigorous justification.
3. Future-oriented skills such as critical thinking skills are increasingly important for regular citizens to function in society, including how people deal with major health emergencies like the Covid-19 pandemic.



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**Dr. Christiana Omoifo**, University of Benin, Nigeria

Discussion Point

1. The scientific revolutions of the 19<sup>th</sup> and 20<sup>th</sup> centuries resulted in the global acceptance of Science, Technology, Engineering, and Mathematics (STEM),
2. STEM is currently known as the solution for several global crisis issues.
3. Teaching practices and the links between the practices and research

**Dennis Chisman Oration**

**Dr. Jack Holbrook**, University of Tartu, Estonia

Discussion Point

1. To promoting science competences in the 21st century,
2. The ICASE thrust for developing science teaching was enhanced through projects

## **Conference Webpage**

For more information, please visit:

<http://www.icas2023.com/>

### **ICASE2023 Conference Featured in an Influential Chinese Media**

Dr Sarfraz Aslam – ICASE Secretary

Recently, ICASE2023(Dubai) was featured by an influential Chinese media "Scientific Chinese", a journal's WeChat official account: <https://mp.weixin.qq.com/s/VOqa8gEwfJa3VK2nrJij4Q>. The journal (<http://www.scichi.cn>) has a good reputation and important influence among Chinese senior intellectuals (especially academicians of Chinese Academy of Sciences) and is the best reading material for understanding hot topics in science and education, the latest scientific research trends and frontier science.

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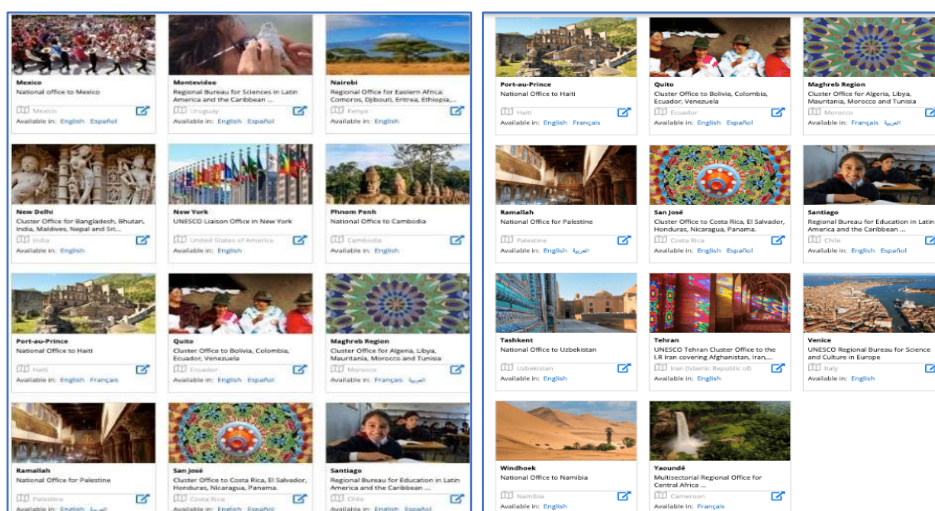
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## UNESCO FIELD OFFICES

Through its field offices, UNESCO develops strategies, programmes and activities in consultation with national authorities and other partners. UNESCO also operates a number of specialized institutes and centers. Check the list below to see the location of the UNESCO Field Offices.

For more information see:

[https://en.unesco.org/fieldoffice?field\\_country\\_reference\\_target\\_id=All](https://en.unesco.org/fieldoffice?field_country_reference_target_id=All)



For all UNESCO Offices by Region see: <http://www.unesco.org/new/bfc/all-offices/>

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## **ICASE Journal - Science Education International (SEI)**

Steven Sexton – Editor

College of Education, University of Otago, Dunedin, New Zealand,

[steven.sexton@otago.ac.nz](mailto:steven.sexton@otago.ac.nz)

February 2023

Volume 34, Issue 1 in 2023 will be my last issue as Editor of the *Science Education International* journal. I have had the privilege of being the Editor since 2017. During this tenure, I have worked with authors from around the world to publish 229 articles in the 23 issues I have been Editor. This has seen *Science Education International* move to the Open Journal System and become registered as a DOI journal under Crossref, Directory of Open Access Journals (DOAJ), and we are currently completing our registration with SCOPUS. To the new Editor starting with Volume 34, Issue 2, I wish you all the best for this very rewarding position.

An article in the March issue by Kym Clyde H. Moro and William Jo Se M. Billote integrates Ivatan indigenous games in a learning module in physics to investigate its effect on Filipino high school students' understanding, motivation, attitude, and scientific sublime. Moro and Billote report on the state of physics education in the Philippines noting the poor student achievement in science education and as a result the need to increase students' Physics achievement. Moro and Billote note that once a learner starts to understand physics ideas and is able to apply these concepts in their day-to-day experiences, science sublime, the mixture of strong emotions such as feelings of awe, wonder, appreciation, astonishment, and fear, attracts people to study science and sustains their interest in that particular subject area. This study encourages the reintroduction of Ivatan indigenous games to learners, with the expectations of preserving the Ivatan indigenous games and traditions. Their study employed Quasi – Experimental research design with 20 Grade 11 High School students which integrated physics into a game-based learning module with Ivatan indigenous games. The results on the effect of the utilization of the game-based learning module on students' attitudes towards learning physics indicated a significant increase in students' attitudes towards learning physics after using the game-based learning module. Moro and Billote concluded integrating Ivatan indigenous games to learning modules in physics is effective in improving students' understanding, motivation, and attitudes towards learning physics, but unsuccessful in fostering the scientific sublime.

*SEI also welcomes new reviewers. If you are interested, please contact **Dr. /Prof. ZHANG BaoHui**, Chair, ICASE Research and Publications Standing Committee at [icase2017bhzhang@163.com](mailto:icase2017bhzhang@163.com)*

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## ICASE Executive Committee 2020-2023

ICASE membership spans the world led by an Executive Committee, with a Management Committee (President, President-Elect, Immediate Past President, Secretary, and Treasurer) responsible for the day-to-day administration and working closely with Appointments Co-opted to the Management Committee, Regional Representatives, and Chairs of Standing Committees. Presidential terms are noted below.

### Management Committee (2020-2023)

	<p><b>President (2020-2023)</b> Dr. ZHANG BaoHui Qujiang Scholar Professor, Shaanxi Normal University, Xi'an, China E-mail: <a href="mailto:icase2017bhzhang@163.com">icase2017bhzhang@163.com</a> (Member Organization: National Association for Science Education, The Chinese Society of Education - CNAE) <b>*Also Chair of Research and Publications Committee</b></p>		<p><b>Immediate Past- President</b> Dr. Bulent Cavas Professor, Department of Science Education, Dokuz Eylul University Izmir, Turkey E-mail: <a href="mailto:bulentcavas@gmail.com">bulentcavas@gmail.com</a> <b>*Also Chair of Web Communications Committee (Presidential Term: 2017-2020)</b></p>
	<p><b>President-Elect</b> Dr. Declan Kennedy Senior Lecturer in Science Education Department of Education, University College Cork, Ireland E-mail: <a href="mailto:d.kennedy@ucc.ie">d.kennedy@ucc.ie</a> (Member Organization – Irish Science Teachers Association – ISTA) <b>*Also, World Headquarters Coordinator</b></p>		<p><b>Treasurer</b> Ms. Mary Mullaghy Eureka Secondary School, Kells, Co Meath Dublin, Ireland E-mail: <a href="mailto:mmullaghy@gmail.com">mmullaghy@gmail.com</a> (Member Organization: Irish Science Teachers Association -ISTA)</p>
	<p><b>Secretary</b> Dr. Sarfraz Aslam Associate Professor, UNITAR International University, Malaysia E-mail: <a href="mailto:miansarfraz@hotmail.com">miansarfraz@hotmail.com</a> (Member Organization: National Association for Science Education, The Chinese Society of Education - CNAE) <b>*Also, ICASE Newsletter Editor</b> <a href="http://www.icaseonline.net/news.html">http://www.icaseonline.net/news.html</a></p>		 <small>International Council of Associations for Science Education</small>  <b>ICASE Website</b> <a href="http://www.icaseonline.net/index.html">http://www.icaseonline.net/index.html</a>

### Appointments Co-opted to Management Committee (2020-2023)

	<p><b>Editor, <i>Science Education International</i></b> <b>The Official Journal of ICASE</b> Dr. Steven Sexton Senior Lecturer, Science Education, College of Education, University of Otago Dunedin, New Zealand E-mail: <a href="mailto:steven.sexton@otago.ac.nz">steven.sexton@otago.ac.nz</a> (Member Organization: New Zealand Association of Science Educators - NZASE) <b>*Also Chair of Pre-secondary &amp; Informal Science Education Committee</b></p>		<p><b>Representative to UNESCO</b> Dr. Teresa Kennedy Professor, Bilingual STEM Education University of Texas at Tyler Tyler, Texas USA E-mail: <a href="mailto:tkennedy@uttyler.edu">tkennedy@uttyler.edu</a> (Member Organization: National Science Teachers Association of the U.S. - NSTA) <b>*Also Past President and North America Representative (Presidential Term: 2014-2017)</b></p>
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## Regional Representatives (2020-2023)

	<p><b>Africa Regional Representative</b> Mr. David Itamah Director of Education, Chair of the STAN Board of Trustees; Chair of the Board of Directors of The STAN Place Ltd, the official publishers of STAN books Abuja, Nigeria E-mail: <a href="mailto:daitamah@yahoo.com">daitamah@yahoo.com</a> (Member Organization: Science Teachers Association of Nigeria - STAN)</p>		<p><b>Europe Regional Representative</b> Dr. Manuel Filipe Pereira Cunha Martins Costa Professor, Departamento de Fisica, Universidade do Minho, Campus de Gualtar Braga, Portugal Email: <a href="mailto:mfcosta@fisica.uminho.pt">mfcosta@fisica.uminho.pt</a> (Member Organization: Hands-on Science Network – HSCI)</p>
	<p><b>Asia Regional Representative</b> Dr. Manabu Sumida Professor, Faculty of Education, Ehime University Bunkyo-cho, Matsuyama City, Japan E-mail: <a href="mailto:msumida@ed.ehime-u.ac.jp">msumida@ed.ehime-u.ac.jp</a> (Member Organization: Japan Society for Science Education - JSSE)</p>		<p><b>Latin America Regional Representative</b> Dr. Cesar Mora, Professor Titular Posgrado de Física Educativa, Centro de Investigación en Ciencia Aplicada Tecnología Avanzada Unidad Legaria del Instituto Politécnico Nacional (CICATA-IPN) Del, Miguel Hidalgo, CP, México D.F. E-mail: <a href="mailto:ceml36@gmail.com">ceml36@gmail.com</a> (Member Organization: Latin American Science Education Research Association - LASERA)</p>
	<p><b>Australia/Pacific Regional Representative</b> Dr. Leah Moore, Associate Professor University of Canberra Canberra, Australia E-mail: <a href="mailto:Leah.Moore@canberra.edu.au">Leah.Moore@canberra.edu.au</a> (Member Organization: Australian Science Education Research Association - ASERA)</p>		<p><b>North America Regional Representative</b> Dr. Teresa Kennedy Professor, Bilingual STEM Education University of Texas at Tyler Tyler, Texas USA E-mail: <a href="mailto:tkennedy@uttyler.edu">tkennedy@uttyler.edu</a> (Member Organization: National Science Teachers Association of the U.S. - NSTA) <b>*Also Past President and Representative to UNESCO (Presidential Term: 2014-2017)</b></p>

## Chairs of Standing Committees

	<p><b>Early Years STEM Education</b> Dr. Sue Dale Tunnicliffe Senior Academic, UCL Institute of Education Leadership, Commonwealth Association of Science, Technology and Mathematics Educators - CASTME, United Kingdom E-mail: <a href="mailto:lady.tunnicliffe@mac.com">lady.tunnicliffe@mac.com</a> (Member Organizations: Commonwealth Association of Science, Technology and Mathematics Educators - CASTME and the Association for Science Education of the UK – ASE)</p>		<p><b>International Projects</b> Dr. Jack Holbrook Visiting Professor, Centre of Science Education, University of Tartu Past President and Newsletter Editor Tartu, Estonia E-mail: <a href="mailto:jack@ut.ee">jack@ut.ee</a> (Member Organization: Hong Kong Association for Science and Mathematics Education - HKASME) <b>*Also Past President (Presidential Term: 2008-2011)</b></p>
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## Chairs of Standing Committees



### Research and Publications

Dr. ZHANG BaoHui  
Qujiang Scholar Professor, Shaanxi  
Normal University, Xi'an, China  
E-mail: [icase2017bhzhang@163.com](mailto:icase2017bhzhang@163.com)  
(Member Organization: National  
Association for Science Education, The  
Chinese Society of Education - CNASE)  
**\*Also, President (Presidential Term:  
2020-2023)**



### Pre-secondary & Informal Science Education

Dr. Steven Sexton  
Senior Lecturer, Science Education,  
College of Education, University of  
Otago Dunedin, New Zealand  
E-mail: [steven.sexton@otago.ac.nz](mailto:steven.sexton@otago.ac.nz)  
(Member Organization: New Zealand  
Association of Science Educators –  
NZASE)  
**\*Also Editor, Science Education  
International The Official Journal of  
ICASEResearch and Publications**



### Safety in Science Education

Mr. Bob Worley  
Chemistry Advisor, CLEAPSS Science  
United Kingdom  
E-mail: [bob.worley@cleapss.org.uk](mailto:bob.worley@cleapss.org.uk)  
(Member Organization: CLEAPSS  
Science and the Association for  
Science Education of the UK – ASE)



### Web Communications

Dr. Bulent Cavas  
Professor, Department of Science  
Education Dokuz Eylul University Izmir,  
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(Member Organization – Dokuz Eylul  
University)  
**\*Also Past President (Presidential  
Term: 2017- 2020)**



### World Headquarters Coordinator

Dr. Declan Kennedy  
Senior Lecturer in Science Education,  
Department of Education, University  
College Cork  
Cork, Ireland  
E-mail: [d.kennedy@ucc.ie](mailto:d.kennedy@ucc.ie)  
(Member Organization: Irish Science  
Teachers Association-ISTA)  
**\*Also President Elect (Presidential  
Term: 2023-2026)**



### Membership

Dr. Virgilio Umangay Manzano  
Dean, Graduate School and Advanced  
Studies of the Urdaneta City University  
in Urdaneta City, Philippines  
Email: [vumanzano@gmail.com](mailto:vumanzano@gmail.com)  
(Member Organization: The  
Comparative Education Society of the  
Philippines – CESP)



### Science & Technology Education Centers

Dr. Janchai Yingprayoon  
Deputy Director, International College,  
Suan Sunandha Rajabhat University,  
Bangkok, Thailand  
E-mail: [janchai@loxinfo.co.th](mailto:janchai@loxinfo.co.th)  
(Member Organization –Suan  
Sunandha Rajabhat University)  
**\*Also Past President (Presidential  
Term: 2004- 2007)**



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