



International Council of Associations for Science Education

Supporting and promoting science education internationally
The ICASE Newsletter

June/July 2018

Welcome to the ICASE June/July 2018 Newsletter!

The ICASE Newsletter is a publication containing current information about ICASE initiatives conducted by ICASE member organisations, and topics of interest in the field of science education. The table of contents for this issue is located 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.



<http://www.icaseonline.net>

Over the past 40+ years, over 200 organizations have been members of ICASE. Currently, there are 32 organizations from 30 countries contributing to the financial administration of ICASE.

www.icaseonline.net/membership.html

The ICASE Newsletter is distributed to Member Organisations and through them to their members



To be included on the listserve for notification of future newsletters please follow the guidelines at:

www.icaseonline.net/news.html

Read or Submit a Manuscript to the ICASE Journal:

Science Education International



For information please visit our Journal web page:

<http://www.icaseonline.net/seiweb>

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WSEC 2018 ISTANBUL

Istanbul Aydin University (IAU) and The International Council of Associations for Science Education (ICASE) organized the World Science Technology Engineering and Mathematics (STEM) Education Conference in order to bring all stakeholders together (universities, research institutions, civil society organizations, SMEs, public bodies, science centers etc.) to promote STEM education around the world.



The conference was held in Istanbul Aydin University Campus in Istanbul – Turkey between 8-10 June 2018.

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The Conference and STEM Education

The conference received approximately 300 participants from 19 different countries: Bangladesh, China, Cyprus, Egypt, Georgia, Germany, Greece, Hong Kong, Italy, Malaysia, New Zealand, Nigeria, Philippines, South Africa, Turkey, UK, USA and Thailand.



The opening ceremony started with speech of ICASE President Prof.Dr.Bulent Cavas, Istanbul Aydın University Rector Prof.Dr.Yadigar Izmirli, Turkish Ministry of Education - Innovation and Educational Technologies General Director Bilal Tırnakçı and Turkish Ministry of Education - Deputy Director of Ministry of Education Dr.Muammer Yıldız.

National and International media showed interest to STEM Education conference.

You can watch the interview with Dr.Jack Holbrook on the

<https://www.dha.com.tr/egitim/dr-holbrook-stem-egitimi-21-yuzyilin-bir-gerekligi/haber-1583980/video/>



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The term “STEM education” refers to the teaching and learning associated with the disciplines of science, technology, engineering, and mathematics, and typically includes educational activities across all grade levels and in both formal and informal classroom settings. The integration of STEM disciplines aims to develop the “four C’s” of the 21st century skills: creativity, critical thinking, collaboration and communication. The primary goal of STEM education is to prepare students for their future lives and careers, and to create problem solvers that are prepared to engage in design and production. Therefore, its culture of inquiry leads to important contributions to the country’s economic developments since students will be better prepared to use high-level critical thinking skills in innovative ways.

Educationally speaking, STEM is curriculum-based and incorporates an interdisciplinary approach to educating students in all four specific disciplines: science, technology, engineering and mathematics. Instead of teaching these four disciplines as separate and discrete subjects, STEM integrates these four disciplines into an active and inquiry-based learning paradigm based on socio-scientific issues.

Conference received contribution from STEM stakeholders in different capacities and had all participants a wonderful, rewarding and successful conference.



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NEWS FROM UNESCO



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In 1972, ICASE was created by the United Nations Educational, Scientific and Cultural Organization (UNESCO) to extend and improve science education throughout the world. Since that time, ICASE has been included in a network of UNESCO non-governmental organizations (NGOs) representing civil society from around the world. The UNESCO partnership with NGOs constitutes a valuable cooperation network in the service of people for sustainable development, equity, international understanding and peace in UNESCO's fields of competence.

Prof. Dr. Teresa Kennedy, Immediate Past President of ICASE, represents ICASE with UNESCO's NGO committee. In this capacity, Prof. Kennedy attends occasional meetings at UNESCO. Her assigned role is to help UNESCO staff organize events involving all the NGO's associated with UNESCO (organizations representing very diverse content backgrounds, not just science).

The list of NGOs can be viewed on the following link:

<https://en.unesco.org/partnerships/non-governmental-organizations/list>

UNESCO NGO's range from broadcasting organizations, to human rights organizations, to religious or gender specific organizations, as well as some unique organizations that work internationally such as Clowns without Borders or the many organizations that promote specific languages such as Esperanto, French, German, etc. There are only a few NGOs that work in the area of science.

On the NGO committee, Prof. Kennedy serves in an organizational and administrative/secretarial role. In helping to organize events, the committee is in the background doing the legwork and planning for the UNESCO representatives who present at their events. UNESCO makes the final decisions on the agenda for all events. Prof. Kennedy states that "It has been a considerable amount of work, but I am happy and honoured to fulfil this service assignment on behalf of ICASE as it allows ICASE to stay on the radar at UNESCO as an active organization and promote our membership with them, which in turn allows us to request that UNESCO provide representatives to present/speak at our international ICASE conferences."

UNESCO representatives have presented at every past ICASE World conference ICASE have held. Due to no finances, often times their representation is pre-recorded or presented via skype at some of the ICASE world conferences, such as our events in Turkey and Estonia; but they have sent high level representatives to some of our events (such as in Malaysia). Hopefully, we will host UNESCO representatives in our future ICASE-World STE Conferences as well.

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UNESCO Networking Events

Each year, UNESCO organizes networking events in different regions. Last year's science networking event took place in Lomé, Togo, during the week of 18 September entitled "**Teaching: A profession.**"

For our representatives, it is time for us to complete the UNESCO paperwork that states our interest as an organization in partnership with UNESCO to participate in their networking events. **We strongly encourage ICASE regional coordinators, and ICASE executive members and partner organizations, to attend events when they cover topics of interest and occur in locations near them.** Previously, ICASE Regional Representative for Asia, Prof. Manabu Sumida attended a past UNESCO networking event that took place in Japan. Moreover, both current and previous ICASE presidents received official invitations to attend. Hopefully, the ICASE executive committee can attend future UNESCO networking events. The ICASE Regional Representatives are also encouraged to attend future events.

The information for the next UNESCO science networking event

The list below gives the next UNESCO Science Networking Event place, date and theme. Please note that UNESCO only allows organizations to have generally 1 - 4 representatives present at each networking event due to the size of the event venues and the fact that they invite many organizations to attend.

Jamaica: 5-9 November 2018 – Science Education Networking Event, Theme: "Strengthening Teacher Education: A prerequisite for quality teaching and learning"

- Sub-theme 1: Knowledge, skills and competencies for teacher development
- Sub-theme 2: Teacher training: Skills and competencies for work
- Sub-theme 3: Inclusive pedagogies and equal participation in Education
- Sub-theme 4: Teacher education: Digital learning and continuing professional development



UNESCO NGO Liaison Committee International Conference

The NGO-UNESCO Liaison Committee is currently planning its 10th Forum entitled "Science Matters to All" which is centered around the understanding that science is important to everyone, not just scientists. This will be UNESCO's first forum to focus on the topic of science and will address the areas of (1) women and girls in the fields of science and technology, (2) developments and impacts of AI (artificial intelligence) in our society, (3) traditional knowledge and practices in science, and (4) issues concerning STEM-related fields and the workforce. The event will take place at UNESCO HQ in Paris, France in November 2018. Representatives from all NGOs in official partnership with UNESCO will be invited to attend. Unfortunately, no funding will be available to support attendance, however, hopefully many ICASE representatives will be interested and able to attend. We will send updates regarding this event through the ICASE listserv as we learn more information from UNESCO!

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Curriculum Framework for the Sustainable Development Goals



The Commonwealth
Education Hub

UNESCO and the Commonwealth are in agreement to cooperate in the areas of Education, Youth and Sport and Peace-building and Dialogue. The agreement focuses on collaborative approaches so that, for example, the Commonwealth's on-line Education Hub is used to support UNESCO's programme in Global Citizenship Education.

Education is UNESCO's top priority because it is a basic human right and the foundation on which to build peace and drive sustainable development. UNESCO has been promoting Education for Sustainable Development (ESD) since 1992. It led the UN Decade for ESD from

2005 to 2014 and is now spearheading its follow-up, the Global Action Programme (GAP) on ESD. The new 2030 Agenda for Sustainable Development clearly reflects this vision of the importance of an appropriate educational response. The 2030 Agenda for Sustainable Development is a plan of action for people, planet and prosperity, with countries and all stakeholders acting in collaborative partnership to implement this plan. The Agenda also seeks to strengthen universal peace and provides a common vision for peaceful societies. The 2030 Agenda for Sustainable Development marks a paradigm shift in the global framework for development and presents a unique opportunity to reorient efforts towards a new path for development with sustainability at its core. Education is central to this and to the achievement of all 17 Sustainable Development Goals (SDGs). Therefore, as part of the agreement, while UNESCO published online *Education for Sustainable Development Goals Learning Objectives*, the Commonwealth Secretariat published *Curriculum Framework for the Sustainable Development Goals First Edition* in July 2017. Both documents are available online and can be used freely only for educational purposes. The links and front pages are below.



Curriculum Framework for the Sustainable Development Goals

First Edition
July 2017



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SCIENCE TEACHERS ASSOCIATION (FENÖDER) IN TURKEY



www.fenoder.org



fenogretmenleridernegi@gmail.com

This page was prepared by the members of the board of directors in the name of FENÖDER. Bülent DAL (President of the Association), Erdoğan DEMİRCİ (vice president), Burcu KILIÇ (vice president)

The science teachers in Turkey, came together and established Science Teachers Association (FENÖDER), on 22/03/2016. The Association was founded to support the provision of effective teaching-learning environment for the science or science teachers who work at Primary education institutions. FENÖDER continues to support the teachers by organising workshops, courses, conferences, exhibitions, science festivals, science activities.

Understanding Science with Its Nature Workshop

Understanding Science with Its Nature Workshop will be held for the prospective and in-service teachers who are from primary and secondary school science departments. The content of the workshop will be: Science and being Scientific, Different Approaches to Science and Method Problem in Science. The event will be held on August 10, 2018 between 13: 30-16: 30 at our Association. The workshop will be given free of charge by Buca Education Faculty Science and Mathematics Education Department Science Education Department Head of Department Prof. Dr. Ünal Çoban.

Project Cycle Management Training

The Project Cycle Management Training Course was given by Project Specialist Barış ÖZCAN for 2 days in FENÖDER between 17-18 July 2018 at 10.00-17.00. In the training, the participants were informed about Project, Problem Tree, Solution Analysis, Strategy Analysis, Project Cycle Management, Local and National Agency KA1 Funding Sources, Association Projects, Project Presentations and Evaluation.



Arduino Programming Basic Training Course-1

On 11-12 July 2018 hours, between 10.00-17.00 the teachers were given 2 days Arduino Programming Basic Training Course-1 by Osman ÖNGÖREN. Teachers practiced the Arduino applications, including Tinkercad Program, 3D design and Arduino simulation, mBlock interface usage and Block Coding concept, MBot robot applications with block codes, Arduino introduction, Analog and digital output concepts, Arduino sensor and components, Use of breadboard, Control of an LED with Arduino UNO, Animation with 3 leds with Arduino UNO, Traffic light application with Arduino UNO.



Moon Eclipse Photos by FENÖDER members

The longest full lunar eclipse of the century took place on 27 July 2018. It has been observed very clearly from all over Turkey. Squares of photographs that were taken by member teachers of Science Teachers Association had at the time of observation ...





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Invitation for Expression of Interest (EOI) for the hosting of the 2022 ICASE World Conference on Science and Technology Education (STE)

Issue Date : 23 May 2018
Closing Date : 22 August 2018

1. About ICASE

Established in 1973, the objectives of the International Council of Associations for Science Education (ICASE) are to:

- Extend and enhance the work of its member organizations
- Provide and support activities and opportunities to enhance formal and non-formal science and technology education worldwide.
- Establish and maintain an international communication network.
- Encourage and support the establishment and development of professional science and technology organizations, especially where none currently exists in a country.
- In striving towards these objectives, ICASE activities have centered on:
- Publishing a quarterly journal (Science Education International www.icaseonline.net/seiweb) and producing a primary science newsletter (Stepping into Science).
- Assisting and organizing conferences, symposia and workshops.
- Providing awards in recognition of outstanding service to science education.
- Producing and assisting in the exchange of teaching resources.
- Helping business/industry to form partnerships to support and interact with science and technology education organizations.
- Promoting science and technology education research and its application to teaching.
- Promoting the exchange of science teaching personnel.
- Liaising with several organizations in an international movement to address the challenge of providing appropriate science and technology education for all.
- Organizing World Conferences on science and technology education.

The Governing body of ICASE is its General Assembly, consisting of one delegate from each member association together with any members of the Executive Committee who are not delegates. The Governing Body delegates the operation of ICASE to an elected Executive Committee, comprising of a President, President-Elect, Past-President, Secretary, and Treasurer and up to eight members elected on a geographical basis. The Executive Committee has the power to appoint chairmen of Standing committees to further specific ICASE activities.

At its General Assembly in Kuching, Malaysia in 2013, ICASE approved a strategic plan for the future. This includes re-examining the goal of ICASE in order that the vision of the Association to provide the foundation and leadership

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in *Delivering Excellence in Science Education Worldwide* could be realized. Thus, moving forward, ICASE envisions its role as helping to develop and sustain science teacher associations so that all science teaching is enhanced through collaboration, innovative methodologies and connections throughout the globe. In this direction, ICASE mission is to deliver and co-ordinate, enact and disseminate research and resources that enhance the impact and growth of science education and science teacher associations throughout every continent.

Indeed, ICASE is working on a range of actions designed to improve its fiscal position, fundraising strength, reporting and transparency of its financial position, accountability and adherence to due process, membership strength and to assure that the organization has a permanent headquarters in the near future.

2. ICASE World Conferences

ICASE World Conferences are meant to further the vision and mission of the Association. The first World Conference was held in Penang, Malaysia in 2003. This was followed by other conferences in Perth, Australia (2007); Tartu, Estonia (2010); Kuching, Malaysia (2013), and Antalya, Turkey (2016). The 6th World Conference will be held in Pattaya, Thailand from 4 – 9 November 2019; 4th and 9th November being arrival and departure dates respectively.

3. The Invitation

This is an invitation for Expressions of Interest to host the 7th ICASE World Conference on STE in 2022 from science teacher associations (STAs) which have clear and verifiable national structures. The purpose of this EO1 is to pre-qualify suitable STAs to bid for the hosting rights of the 2022 ICASE World Conference. Organisations which are not science teacher associations need **NOT** express interest.

4. Requirements

Interested STAs must be financial members of ICASE up to and including 2018. They should provide the following information:

- a) Name of Organization
- b) Registration Number and Year of Registration
- c) Registered Address
- d) Membership size as at 23 May 2018.
- e) Aims and/or Objectives of the organization as contained in Memorandum & Articles of Association, Trust Deed, and/or Constitution.
- f) Legal Status: Provide documentation showing that the organisation is a STA.
- g) Supply the name, email address, and a 200-word CV of the person who will serve as the Local Conference Chair should your organization be successful in the final bid.
- h) Supply the name and email address of the Chief Executive Officer of the organisation.
- i) Provide names, location, and contact details of 2-3 five-star hotels located within working distance in the city that you intend to host the conference – the hotels should together accommodate 400 or more people. (Provide approximate distance in metres from one hotel to the other.)
- j) Give two reasons why ICASE should rather hold its 2022 World Conference in your country and not elsewhere.



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5. Disclaimer

This invitation is not an offer and is limited to member organizations of ICASE that are science teacher associations. Nothing herein is to be construed as creating any binding contract for hosting the 2022 ICASE World Conference on STE between any interested STA and ICASE until ICASE and the STA enter into a final, binding contract. ICASE does not warrant the accuracy of the content of this invitation and will not be liable for any omission therein. The Association (ICASE) reserves the right to change any information and/or to issue addenda to this invitation.

6. Submission Guidelines

EOIs should be in PDF format and should be signed and submitted by the Chief Executive Officer of the STA between 21 & 22 August 2018 to:

Ben Akpan ben.b.akpan@gmail.com

Address for Enquiries

ben.b.akpan@gmail.com

Past ICASE World Conferences on Science and Technology Education (STE)

ICASE World Conferences have taken place in Penang, Malaysia (2003), Perth, Australia, (2007, Tartu, Estonia (2010), in 2013 on the island of Borneo in Kuching, Malaysia, and in Antalya, Turkey (September 2016).



On the following page, you can see the proposal for the next ICASE 2019 WORLD SCIENCE AND TECHNOLOGY EDUCATION CONFERENCE, that will take place in Pattaya, Thailand, between 5-8 November 2019.

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**PROPOSAL FOR ICASE 2019
WORLD SCIENCE AND TECHNOLOGY EDUCATION CONFERENCE**

- Date : 5-8 November 2019 (4 November for General Assembly)
 Place : Pattaya – Thailand
 Registration fee: 300 Euro
 Hotel : Nongnooch Resort: <http://www.nongnoochtropicalgarden.com/home/>
 (Single or Double room around 80 Euro per night + breakfast)
 Check rate and book online: <http://www.nongnoochresortpattaya.com/resort/>
 Theme : Not clear yet, might be connected with “science education 4.0”
 Excursion : 1st option: Botanical Garden and Educational Activities;
 2nd option: Sea Turtle Conservation Project Visit
 3rd option: Pattaya city tour
 (1st option is free; 2-3 options need ticket)

DRAFT PROGRAM OUTLINE

Time	First day	Second day	Third day	Fourth day	Fifth day
09.00-10.00	Registration	Registration	Keynote # 2 & Introduction to Discussion Group	Keynote # 3	Workshop session # 1
10.00-10.30		Opening Ceremony &	Coffee Break	Coffee Break	Coffee Break
10.30-12.00		Keynote # 1	Discussion Groups	Concurrent session # 3	Concurrent session # 5
12.00-13.30		Lunch	Lunch	Lunch	Lunch
13.30-15.00		Concurrent session # 1	Excursion # 1*	Concurrent session # 4	Concurrent session # 6
15.00-15.30	ICASE General Assembly	Coffee Break		Coffee Break	Coffee Break
15.30-17.00		Concurrent session # 2		Poster session # 1	Conference Declaration & Closing Ceremony
18.00-19.00	Welcome Reception	Free time		Free time	
19.00-21.00	Dinner	Dinner	Dinner		
21.00-24.00				ICASE gala dinner	



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Annual Membership Updates

It's time to renew your organizational ICASE member fees! 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.icasonline.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 in to use?

In February 2017, the ICASE Executive Committee approved a new a new policy on 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 funds (generated by ICASE membership fees) being available.

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 it 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: \$500 - \$2 000. These funds are

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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 (in writing) at the subsequent 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 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. According to the ICASE Constitution, requests for new members, whether full or associate, are approved by the ICASE Executive Committee.

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- organization of ICASE World Conferences, regional events, and workshops providing opportunities for professional development and networking.

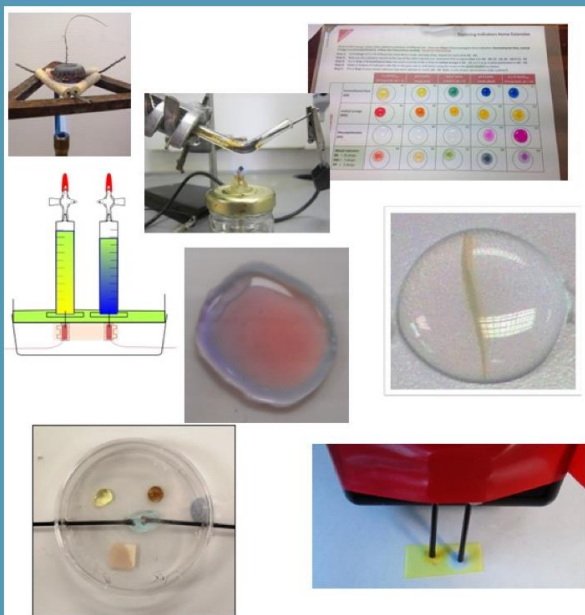
In addition, ICASE member organizations and their representatives receive reduced conference registration fees for attendance at all ICASE World Conferences.

Membership Details:

Full membership: Full members must be relevant national or regional associations or societies, representing not-for-profit organisations. Membership fees for Science Teacher Associations are based on membership size as reported by the organisation. Full members are the voting members of ICASE and are responsible for the governance of the Council. **Associate membership:** Associate membership is available to any sub-national science and technology education organization, or any institution or universities, and institutional or corporate foundations, companies and businesses interested in the promotion of science education around the world, and pays the respective annual Institutional, Foundation or Corporate membership subscription fee.

MicroScale Chemistry Workshops

By Bob Worley



ICCE 1
SYDNEY | JULY 10-14, 2018



***In a little, you can see a lot!
How microscale chemistry
assists in teaching:***

*A workshop of innovative and
educationally relevant
practical microchemistry which
is visually engaging and
explores the corners of the
Alex Johnstone Triangle.*

Bob Worley, FRSC

[@UncleBo80053383](https://twitter.com/UncleBo80053383)

Bob Worley is doing chemistry workshop at the CONASTA meeting and ICCE meetings. He also includes safety in all his talks as a baseline to his research in the area of microscale chemistry. For those who wants to join workshop;



The International Conference on Coastal Engineering (ICCE) will be held in Baltimore, Maryland between July 30-August 3, 2018.

CONASTA 67, the annual science education conference of the Australian Science Teachers Association (ASTA) will be hosted by the Science Teachers Association of New South Wales (STANSW) and held at the University of Sydney from 8-11 July.



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UPCOMING EVENTS

Schrödinger at 75 – The Future of Biology



To mark the 75th anniversary of Erwin Schrödinger's "*What is Life lectures*" at TCD, **Schrödinger at 75 - The Future of Biology**, a series of talks including 6 Nobel laureates, will take place in the **National Concert Hall Dublin** on **5th & 6th September**.

About

In 1943, Erwin Schrödinger, the Nobel Prize-winning physicist, then Director of Theoretical Physics at the Dublin Institute for Advanced Studies (DIAS), gave three public lectures entitled 'What is Life?' at Trinity College Dublin. Following their publication in 1944 as a book of the same name, these lectures had a tremendous influence on the development of molecular biology. We will mark the 75th anniversary of these lectures with an unprecedented gathering of some of the most brilliant minds working in biology today.

When Schrödinger gave his original lectures in 1943, the basis for heredity was the urgent unsolved question. Our speakers will address the current burning issues in biology—including the basis of the mind and consciousness, ageing, gene editing, synthetic biology, bioenergetics and the origin of life—and will recapture the spirit of Schrödinger's lectures by exploring the future of biology.

Full details and registration on

<https://www.tcd.ie/biosciences/whatislife/>

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ASE Annual Conference 2019 University of Birmingham

Europe's Largest Science Education Conference.

The ASE Annual Conference attracts science educators from across the UK and beyond to share good practice, research and practical ideas for the classroom. The conference also hosts an exhibition with over 100 other organisations, all focused on great STEM education.

📅 09 January 2019 - 12 January 2019

🕒 09:30 - 16:00

📍 University of Birmingham
Edgbaston Campus, Birmingham B15 2TU, United Kingdom

ASE's Annual Conference is Europe's largest science education CPD conference. It is the most cost-effective, subject-specific CPD for all teachers of science. Build the ASE Annual Conference into your School Development Plan.

- This National conference brings together the best speakers and practitioners all in one place.
- The 350 sessions and 2,000 delegates, enable you to focus on your school's priorities, develop your own subject knowledge and learn from other teachers.
- Cascade the ideas, approaches and resources to your whole team.

Event Type: Conference

👤 Early Career Teachers, Primary, SLT, Teachers

📖 National



International day is the Wednesday, the first day.
The exhibitions will be open on the full day, Thursday, when main sessions begin.

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MALMÖ - SWEDEN

XVIII. IOSTE SYMPOSIUM



13-17 AUGUST 2018

XVIII IOSTE SYMPOSIUM

FUTURE EDUCATIONAL CHALLENGES FROM SCIENCE & TECHNOLOGY PERSPECTIVES

AUGUST 13-17, 2018 MALMÖ , SWEDEN

XVIII. IOSTE Symposium will be held in Malmö, Sweden, Dates: 13- 17 August, 2018. Theme: Future educational challenges from a science and technology perspectives.

The theme of the conference, Future educational challenges from science and technology perspectives, underlines aspects of great relevance for contemporary science education research: the need to reflect on different perspectives, stress the relationship between science, technology and society, emphasize the cultural and human values, the role of knowledge, learning processes and context, formal or non-formal. Highlighting these themes means to promote contact and dialogue across political and ideological borders to recognize sustainability, cultural diversity and international understanding.

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International Council of Associations for Science Education (ICASE)
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Supporting and promoting science education internationally
The ICASE Newsletter

June/July 2018



Southeast Asian
Ministers of Education
Organization

ISMTEC 2018

Bringing Computational Thinking to K-12

The 4th International Science, Mathematics and Technology Education Conference

18 - 20 October 2018

The Ambassador Hotel, Sukhumvit 11, Bangkok

The International Science, Mathematics and Technology Education Conference (ISMTEC) 2018, is the fourth ISMTEC to be held, again in Bangkok Thailand. ISMTEC 2018 will draw K-12 teachers, administrators, consultants and specialists, university educators and STEM education researchers from the 10 ASEAN countries (Association of Southeast Asian Nations) and from many other countries around the world.

Deadline: 31 July 2018

International Council of Associations for Science Education (ICASE)
<http://www.icaseonline.net>



ICASE Journal - Science Education International

The ICASE quarterly journal is now about to enter its 26th year. From humble beginnings in 1990 when it was created to serve as the dissemination channel for ICASE, the journal has now grown to be a major English language international science education journal, receiving articles from science educators around the world. Thanks to its team of volunteers, the journal follows a strict review process to ensure the research and philosophical articles meet the ICASE criteria as relating to primary or secondary science education, or to pre-service teacher education at the tertiary level. Since 2008, the journal is available as open access, online only, although limited copies of occasional issues are published and distributed to interested science educators.

THE ICASE JOURNAL IS A MAJOR DISSEMINATION CHANNEL FOR ICASE MEMBER ORGANISATIONS AND THEIR MEMBERS. AS SUCH, ICASE GIVES PRIORITY TO ARTICLES SUBMITTED VIA ICASE MEMBER ORGANISATIONS AND IS VERY WILLING TO ASSIST MEMBER ORGANISATIONS IN PREPARING ARTICLES FOR THE JOURNAL (especially with respect to written English).

A major attraction of SEI is that there is no payment for those wishing to publish in the journal. And ICASE welcomes submissions by teachers, higher degree students or science educators in general from around the world. ICASE will do its best to assist authors whose native language is not English.

Before making a submission, please consult the Author's Manual for SEI located at www.icaseonline.net/seiweb for information related to the following topics:

- | | | |
|-------------------------|--------------------------------|----------------------|
| (a) Copyright | (b) Plagiarism | (c) Language |
| (d) Material submission | (e) Formatting | (f) Artwork & Photos |
| (g) The Review Process | (h) Non-native English authors | |

And we very much appreciate referencing articles previously published in SEI in your submissions.

ICASE also welcomes new reviewers. If you are interested please contact Dr. Baohui Zhang, Chair, ICASE Research and Publications Standing Committee at baohui.zhang@snnu.edu.cn.

Please refer to www.icaseonline.net/seiweb for the full articles.



Science Education International is now indexed in

- AE Global Index Master Journals List 2015
http://aeglobalindex.com/?page_id=264
- European Reference Index for the Humanities and Social Sciences (ERIH Plus)
<https://dbh.nsd.uib.no/publiseringskanaler/erihplus/periodical/info.action?id=480336>

In addition to 6 international indexes, including ERIC, The Asian Education Index, Education Research Complete Database, Index Copernicus Journals Master List, DOAJ Directory of Open Access Journals, and The Education Research Global Observatory.

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International Council of Associations for Science Education

Science Education International, Official Journal of ICASE

Editor

Steven Sexton

College of Education, University of Otago, New Zealand

Request for expressions of interest to submit papers from the World STEM Education Conference in a special issue of *Science Education International* journal

You are invited to submit an expression of interest to submit a paper to the SEI journal based on your presentation at World STEM Education Conference. It is planned for the Journal to be published in March 2019. Please see details and timeframe below.

Audience: Teachers, teacher educators, policy makers, educational researchers, science associations, institutions, centres, foundations, companies, and individuals concerned with science education.

Paper length: 4,000 - 8,000 words max (incl. references).

Submission guidelines

See http://www.icaseonline.net/seiweb/index.php?option=com_content&view=article&id=84&Itemid=102

Timeline

Expression of Interest to submit paper	July 20 th 2018
Invitation to submit full paper	July 31 th 2018
Full paper to Editors	October 15 th 2018
Reviews complete	November 30 th 2018
Revised paper	January 25 th 2019
Layout Publication Fee paid (€50 per article)	February 2019
Publication	March 2019

Paper structure: (The following sections are suggested)

- Abstract (approximately 200 words)
- Introduction to the paper and review of relevant literature;
- Methods of inquiry;
- Findings;
- Discussion; and
- Conclusions, including identification of gaps in knowledge base if any and Implications
- References (APA 6th edition)

An Expression of Interest containing a title, abstract of paper, authors, should be submitted by Steven Sexton (steven.sexton@otago.ac.nz)

Kind regards and in anticipation of receiving your paper, Steven Sexton

International Council of Associations for Science Education (ICASE)
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International Council of Associations for Science Education

Supporting and promoting science education internationally
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ICASE Executive Committee 2017-2020

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 Regional Representatives and Chairs of Standing Committees. Presidential terms are noted below.



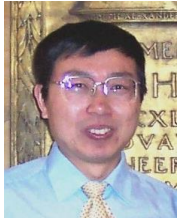
President (2017-2020)

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Associate Professor Department of
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**Also Webmaster/Web Communications*



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Dr. Teresa Kennedy
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**Also Membership Chair*



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ICASE Newsletter:

<http://www.icaseonline.net/news.html>

ICASE Website:

<http://www.icaseonline.net/>

The ICASE Constitution, Strategic Plan
and World Conference Declarations
can be viewed at:

<http://www.icaseonline.net/const.html>

Regional Representatives (2013-2016)



Regional Representative for Africa

Mr. David Itamah, Science Teachers
Association of Nigeria (STAN)
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. E-mail:



Regional Representative for Europe

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Regional Representative for Latin America

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Regional Representative for Australia/Pacific

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Education Research Association (ASERA)
University of Canberra, Australia E-mail:



Regional Representative for North America

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Professional Development at Central Michigan
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Chairs of Standing Committees



International Projects

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**Also President (2014-17)/Newsletter Co-editor*



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**ICASE Past President (2004-2007)*



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World Conferences

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ICASE Journal - Science Education International - In its 26th Year!

Science Education International is the quarterly journal of the International Council of Associations for Science Education (ICASE). ICASE was established in 1973 to extend and improve education in science for all children and youth by assisting member associations throughout the world. www.icaseonline.net/seiweb

International Council of Associations for Science Education (ICASE)
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