Welcome to the July issue of ICIAM Dianoia - Volume 8 Issue 3. In this issue you will find much news about what ICIAM's member societies are doing to remain active and communicate with their communities in the midst of the global pandemic. There are also statements on combating racism and discrimination worldwide and in the scientific community, and, on a more cheerful note, reminders of the success of ICIAM 2019 and of continuing initiatives connecting mathematics and industry. In the northern hemisphere it is summer and many holiday plans are now constrained, but here are good wishes for enjoying whatever vacation you can assemble, and hopes that by the October issue of ICIAM Dianoia the world may be finding a way out of this disaster.

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**Letter from the ICIAM President**

Dear members of all ICIAM member societies:

The COVID-19 pandemic is not over, and it seems that it will continue to affect us for quite a period of time. The pandemic does affect our academic life greatly. For example, basically all international conferences this summer have been cancelled or changed into online events. Nevertheless, I am happy to see that the quarantine did not stop the work of our member societies; particularly, many of our member societies have organized various activities and projects on the fight against the pandemic. I am also happy to see that academic exchanges are going on well, as many lectures/seminars/talks originally scheduled in a conference, or a university, or an institute, are now all online, which makes them available on the internet to be accessible by even more people worldwide.
About ICIAM's board meeting this year: We are still hoping that the situation will get better so that we can hold the board meeting on September 26 (postponed from May) in Glasgow. We are expecting to make a final decision by the end of July, whether to hold the board meeting as a person-to-person meeting in Glasgow or as a virtual online meeting.

With my best regards,
Ya-xiang Yuan
President of ICIAM

Ya-xiang Yuan
Ya-xiang Yuan is the current President of ICIAM (2019-2023). He is a professor at Academy of Mathematics and Systems Sciences, Chinese Academy of Sciences. His research focuses on optimization.

ICIAM Statement on Racism and Discrimination


ICIAM recognizes that mathematics is not immune to racism and discrimination, and pledges to combat systemic racism and discrimination in our community. We encourage our member societies to engage in an open conversation about racism and discrimination and to reaffirm their commitment to inclusivity and diversity in mathematics.

The 2020 ICIAM Officers
Ya-xiang Yuan, Maria J. Esteban, Heike Fassbender, Sven Leyffer, Wil Schilders, Luis Vega
The ICIAM Board Meeting: Update

The ICIAM Board meeting is currently scheduled to take place on September 26, 2020 at Strathclyde University in Glasgow, see http://iciam.org/board-meetings, and will be preceded by by a Workshop on Industrial and Applied Mathematics at the same venue on September 24-25. The ICIAM Officers, together with the IMA and the organizers of the Board meeting will make a final determination on the feasibility of an in-person meeting towards the end of July. Please look out for an email from us to confirm the 2020 Board meeting and workshop towards the end of July.

The 2020 ICIAM Officers
Ya-xiang Yuan, Maria J. Esteban, Heike Fassbender, Sven Leyffer, Wil Schilders, Luis Vega

How to Change Your Society's Membership Information

Update Your Membership Information on iciam.org (http://iciam.org)

ICIAM maintains a self-service membership directory at http://www.iciam.org/members (http://www.iciam.org/members) Please take this opportunity to check your membership information, and update it if appropriate. Instructions on how to update your entry or to add new information can be found in our membership FAQ, http://www.iciam.org/faq-members (http://www.iciam.org/faq-members)

Sven Leyffer
ICIAM Secretary
secretary@iciam.org (mailto:secretary@iciam.org)

The 2020 ICIAM Officers
Ya-xiang Yuan, Maria J. Esteban, Heike Fassbender, Sven Leyffer, Wil Schilders, Luis Vega

ICIAM Conference Support: CALL FOR APPLICATIONS
ICIAM Conference Support for Applied and Industrial Mathematics in Developing Countries

CALL FOR APPLICATIONS

ICIAM has a small budget (up to USD 10,500 per year) that is available to help organizers of conferences, workshops and research schools to include additional delegates from developing countries. Organizers of meetings, who wish to take advantage of this support, are encouraged to apply by sending an e-mail to the ICIAM Secretary (secretary@iciam.org). The level of support is USD 3,500 per conference, to be used to provide ICIAM Fellowships to selected participants from developing countries.

Applications may be submitted at any time. There are two rolling deadlines per year (30 April and 31 October); the ICIAM Officers decide on which applications to support within a month of each deadline. To allow for orderly budgeting and planning, proposals should be submitted a year in advance of the event. Preference is given to events held in developing countries, and applicants should indicate how they plan to use the fellowship funds.

Full details can be found on the ICIAM website, at http://www.iciam.org/iciam-conference-support-applied-and-industrial-mathematics-developing-countries

The 2020 ICIAM Officers
Ya-xiang Yuan, Maria J. Esteban, Heike Fassbender, Sven Leyffer, Wil Schilders, Luis Vega

ICIAM Webpage: Mathematics of COVID-19

Mathematicians world-wide are contributing to the understanding of the COVID-19 epidemic, working with specialists such as microbiologists and virologists on mathematical models that take into account the different situations in different countries.

ICIAM has created a page that collects these activities and projects from all over the world to provide a global view of the contributions of mathematics to help in the fight against COVID-19. Also, media contributions of mathematicians appear in some of those pages.

The aim is not to store individual articles or activities, but to list webpages that collect and advertise those in as many countries as possible, all over the world, and give them the visibility they deserve.

If you know webpages worth being listed, please forward the information to esteban@ceremade.dauphine.fr so the page can be updated

The page’s address is: http://www.iciam.org/mathematics-covid-19
Proposal for an Editorial Board Committee

We are now in the middle of the eighth year of publication of ICIAM Dianoia, and the officers have asked for a proposal to clarify its position in the Council. The ICIAM Bylaws make no mention of a newsletter, but do have provision for ICIAM Committees (see http://www.iciam.org/sites/default/files/iciamBylaws_0.pdf):

6.3 Committees

1. 6.3.1 Creating a committee
   The Board can decide by a majority vote to create a new committee, its name, remit, size, its chair, vice chair and its members. It can also decide on the dissolution of a committee.

2. 6.3.2 Terms in office of committee members
   The terms of office in any function of a committee are 4 years and this can be renewed only once. [E.g. a regular member can serve 8 years, but can still become chair for another 8 years.]

It is planned to present the following proposal to the ICIAM Board at its meeting in September. Comments from readers of ICIAM Dianoia are welcome.

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The name of the committee is ICIAM Dianoia Editorial Board Committee (EBC).

The mandate of the committee is to oversee publication of a quarterly online newsletter, ICIAM Dianoia. The EBC will write articles, solicit articles, edit submitted items, and make decisions on acceptance or rejection of material for publication.

The chair of the committee will be the Editor-in-Chief (EiC) of Dianoia, and will be responsible for typesetting and publishing the newsletter in a timely manner.

Committee members will be proposed by member societies, and a decision on acceptance will be made by the EiC and the ICIAM Officers. The EBC will have between eight and twenty members, and should be representative of the different geographic regions, membership types and various interests of member societies. Members of the EBC are expected to be active in writing and developing articles.

It is further proposed that the current EiC (Keyfitz) and Editorial Board members (listed on the newsletter's masthead) form the initial chair and committee members, with terms beginning in October 2020. Additional members may be proposed at any time.

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If this proposal is accepted, then the committee may wish to discuss some of the following items.

- At the moment, there is no vice chair. Over time, a number of people have been very helpful, but right now only the Editor-in-Chief is authorized to enter items for publication and organize the final newsletter. For the health and stability of the newsletter, and also to bring new perspectives, it would be a very good idea to appoint a vice
chair who could eventually take over as EiC. Sharing the duties of putting the newsletter together would also provide an occasion for organizing the articles in the ICIAM Dianoia in a better way.

- Should the ICIAM officers also be members of the EBC? Should they be ex officio members who do not have any responsibility for gathering articles but participate in deliberations of the committee?
- There has also not been a wide-ranging discussion of the objectives of the newsletter. Members of the Board have made it clear that they want the newsletter to continue, and its periodic publication, which sends a message to about 500 subscribers, serves as a reminder of the existence and purpose of ICIAM itself.
- Just a few of the issues an EBC could tackle: Do we want to accept paid advertising? When the Board was consulted about this earlier, the answer was "no", but has that changed? What topics are suitable for publication in Dianoia? Just the news - reminders of Board meetings, reports on officers’ meetings, calls for developing countries support proposals, and reports on those grants - or more wide-ranging topics, as has been done in the past? We have published news of the International Science Council, of EU initiatives that impact applied and industrial mathematics, obituaries, book reviews, news of other initiatives such as the gender gap project, interviews with mathematical scientists, cartoons. In short, we have printed just about anything that came to mind and that seemed of potential interest to our community.
- We have also worked by consensus: nothing gets published that any committee member objects to. Is this satisfactory, or should we establish a more formal voting procedure for controversial articles?
- Should the committee actually meet occasionally? Once every four years, it is possible to arrange a meeting in person at the ICIAM Congress, but we could meet by telephone or video-conference more frequently. Would some collective thinking lead to improvements in Dianoia?

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Barbara Lee Keyfitz

Barbara Lee Keyfitz is Professor of Mathematics at The Ohio State University. She has a PhD from New York University, and works in the analysis of partial differential equations. She is a Past-President of ICIAM, and Editor-in-Chief of ICIAM Dianoia.

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ICIAM Dianoia

More about ICIAM Dianoia's Editors: David Lannes

David Lannes is a CNRS senior researcher at the University of Bordeaux. He writes:

"My main research field is the analysis of nonlinear PDEs and I also have a strong interest in interdisciplinary research: after early works in nonlinear optics I now work in close collaboration with oceanographers and engineers on the modelling of waves in coastal regions (derivation of new wave models, development of an operational code for coastal engineers), and more recently on wave-structure interactions for applications to marine renewable energies. I am also involved in several initiatives which aim at taking into account in our research activity the considerable environmental issues we are facing. As an editor of this newsletter, I will be happy to put forward initiatives that go in this direction."

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Two Complementary Views of ICIAM 2019

The International Congress of Industrial and Applied Mathematics (https://iciam2019.org/) (ICIAM2019), which took place in Valencia, brought together in Spain more than 4,000 mathematicians from more than 100 countries to share the greatest advances in this discipline that contributes so much to industry and society in general.

The Basque Centre for Applied Mathematics – BCAM (Bilbao, Spain) actively participated in the congress and two of its members have decided to share their experience at the congress with us. The authors of this short article: Luis Vega, who was elected an Officer-at-Large of the International Council of Industrial and Applied Mathematics during the event; and Nagore Valle, BCAM’s Communication Manager, have two very different backgrounds. We present views of ICIAM 2019 that are certainly complementary.

Nagore Valle: “As someone who had recently joined the center as the Communication Manager, ICIAM 2019 was my first experience at a large event involving the mathematical community. Getting to share what our institute is all about at our academic stand, with the invaluable support of the researchers from the center who attended the conference, was a very enriching experience”.

Luis Vega: “It was a fascinating week both personally and scientifically. It was also a small satisfaction to see the impact that the Industrial Day had and to verify in situ how mathematics is essential in all the areas that surround us: social networks, technological companies, industrial processes, finances, artificial intelligence and machine learning…”


The two of us agree that the non-stop exchange of knowledge and ideas between researchers from all over the world was inspiring to see. We observed networking raised to another level. From Professor Vega: “I would specially underline the opportunity the congress offered for interaction between researchers in different fields, from medicine and biology to computer science and artificial intelligence”.

In the opinion of Valle, the involvement and interest of many industry representatives was also “a great thing to witness” in a time where applied mathematics is becoming of the utmost importance.

And from Vega, “I can’t finish without mentioning how satisfying it was to see the recognition by the authorities and the community of the growing work of Spain in the contribution to European achievements in science and innovation, in the field of mathematics”.

And both of us are clear about this: see you in Tokyo 2023!

Nagore Valle and Luis Vega

Nagore Valle is Communications Manager of BCAM (Basque Centre for Applied Mathematics); Luis Vega is Group Leader there, and Mathematics Professor at the University of the Basque Country (UPV/EHU). Vega is currently an Officer-at-Large of ICIAM.
International Science Council Announcements: Global Science TV and the African Scientists Directory

Global Science TV Launched!

Watch the first episode of Global Science TV, featuring ISC Patron Mary Robinson and ISC President Daya Reddy.

Global Science TV is a series of conversational episodes with internationally renowned scientific experts to entertain and inform viewers on the most notable scientific issues that society faces today. Subscribe on YouTube / Facebook / Twitter to stay informed!

Global Science TV launches today – Participate in the Public Value of Science project

The ISC has launched a pilot programme in partnership with the Australian Academy of Science called Global Science TV as one aspect of the Public Value of Science project in the ISC Action Plan. The project consists of 15-minute online TV programmes, which aim to share scientific expertise directly from experts themselves, while educating, entertaining and informing viewers on major issues of scientific relevance. Watch the first episode of Global Science TV and contribute to the programme by sharing or embedding the video on your web page, by nominating experts to be part of an upcoming episode, or by using the free content as a springboard to bring in local experts on similar subject matter for national audiences. Suggest a speaker by completing the online form. https://council.science/globalsciencetv/ (https://council.science/globalsciencetv/)

The African Scientists Directory

In collaboration with the International Science Council (ISC) Regional Office for Africa (ROA) and the Academy of Science of South Africa (ASSAf), and with funding made available by the South African Department of Science and Innovation, the ISC launches the African Scientists Directory.

The online directory provides information on African experts in the fields of natural and social sciences as well as humanities, engineering and mathematics to facilitate the free flow of scientific knowledge across borders and to promote the formation of scientific societies, academies and sub-regional partnerships within and beyond the continent. ISC encourages its Members based in Africa and with scientific expertise to join the directory. Should you be searching for an African voice to advance your science or to strengthen your scientific union, please browse the online directory. https://africanscientists.africa/ (https://africanscientists.africa/)
ISC Statement: Ethical Responsibilities of Scientists at a Time of a Global Threat

STATEMENT: Ethical responsibilities of scientists at a time of a global threat

The vision of the International Science Council (ISC) is of science as a global public good. The COVID-19 pandemic highlights the importance of this conviction. Scientific knowledge is crucial to dealing effectively with SARS-CoV-2. The natural sciences will help us understand how it works and how it can be combated; the social sciences will enable us to evaluate its social impact; and interdisciplinary approaches will be an essential component of countermeasures to it as well as of efforts to arrive at effective models, solutions and insights in the context of pandemics.

The ISC applauds the unprecedented response to the pandemic by the global scientific community. The virus does not respect political or geographical borders and the scientific community almost immediately responded with an approach that recognized the problem as a global one. The sharing of data and knowledge across research teams, institutions and countries has been laudable, as have the number of research groups that have quickly pivoted their attention to the pandemic. Scores of academic journals have committed to making their research on COVID-19 freely available for the duration of the outbreak. We hope that best practices emerging from this response will be used as models for global threats, now and in the future.

Across various news and social media platforms there has been a deluge of information on the COVID-19 pandemic. Some of this is based on good scientific practice, but a significant proportion falls under the heading of misinformation, based on weak or no evidence, or deliberately misleading. Such misinformation is often interwoven with scientifically credible and accurate information, thus rendering it all the more difficult to identify trustworthy and reliable sources. These developments emphasize the importance of continuing engagement by the scientific community, which in so doing must maintain complete transparency and be explicit about both evidence-based information and potential shortcomings.

The pandemic highlights many important ethical issues. The right to scientific freedom is paired with the responsibility to ensure that research promotes the common good. The Principle of Freedom and Responsibility in Science, enshrined in the ISC’s Statutes, requires researchers and institutions at all levels to conduct and communicate their research with ‘integrity, respect, fairness, trustworthiness, and transparency, recognizing its benefits and possible harms.’ To this end we highlight some ethical responsibilities of science as it deals with this grave global threat.

- Health and social policies should be guided by the best possible scientific evidence. When communicating to policy-makers or the public at large, scientists therefore have the responsibility to use the best evidence that they can.
- Misinformation can have dire consequences, from promoting panic or denialism to the use of unproven and possibly dangerous therapies. The scientific community has the responsibility to be vigilant in the face of such anti-scientific acts, to make publicly known their lack of validity, and to advocate strongly for scientific values and the scientific method.
- Scientists should recognize that the best social and health responses to the pandemic will not come from science alone. The right policies for an area will depend on many factors, including the demographics, health care system, law and values of that community. Science should aim to best inform policy, not dictate it.
- Scientists have the responsibility to communicate uncertainties, where they exist, to policy-makers and the public. What counts as a “reasonable risk” depends in part on one’s values. For this reason the communication of uncertainties is crucial to societies’ responses. Public health models, like all science, involve uncertainty, and it is important to communicate the uncertainties to avoid risks of being counter-productive in the long-run. Unless prefaced with the uncertainties involved, the results of inaccurate models could contribute to an erosion of the public’s trust in science.
- The rapid development of new technologies and procedures, integrated with big data, is changing the way in which we conduct science. Researchers must continue considering how personal data is collected, managed and used, including but not limited to, obtaining informed and voluntary consent and ensuring privacy and security of the data. Technology can be used for benefit or harm. The “dual-use” of technology must still be appreciated, as governments often react to crises with increased surveillance and control. The serious threat posed by the pandemic should not be used as an excuse to ignore these basic ethical principles.
- COVID-19 highlights the fact that the vulnerable in society are generally the worst affected in a public health crisis. This is due to many reasons, from inadequate access to quality healthcare, poor health, and the need to accept risks to subsist. Scientists should recognize that there are always asymmetries between more and less vulnerable groups as they select patients for study, suggest therapies and policies, and much more.
Good science is absolutely essential to an effective response to the COVID-19 pandemic and other global threats. For it to be truly effective, scientists must have the right to scientific freedom but also pursue their research in an ethical and socially responsible manner.

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The members of the Committee for Freedom and Responsibility in Science include Daya Reddy (Chair), Saths Cooper (Vice Chair), Richard Bedford, Craig Callender, Enrique Forero, Robin Grimes, Cheryl Praeger, Sawako Shirahase, Peter Strohschneider, Hans Thybo and Nadia Zakhary.


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ECMI Fires up its Internet Activities

Soon after the spread of the COVID-19 virus began to affect plans for physical meetings in 2020, ECMI turned its activities on-line instead.

The first of these activities was a web conference on various aspects of mathematical modelling for the unfolding epidemics (collectively turning into a pandemic). The health authorities in countries across Europe relied on specialists in mathematical modelling, and many ECMI member universities were (and still are) very active in this area.

See: https://ecmiindmath.org/2020/05/04/mathematics-of-the-covid19-crisis-an-ecmi-webinar

One of the ECMI's longest running and most popular educational activities, the ECMI Modelling Camp for students, was scheduled to take place in Russia, in St. Petersburg. The physical camp event had to be cancelled, but the city where Euler did much of his brilliant work was not late in moving the event on line.

See: http://mw2020.spbstu.ru

The famous Study Groups with Industry began in the UK, and also here, the event has to be conducted on-line instead of a physical meeting. This year University of Leeds is hosting the Study Group.

See: https://conferences.leeds.ac.uk/lesgi/
An ECMI students competition. Seeking to involve undergraduates in mathematical modelling with an industrial flavor, ECMI has this spring opened a student competition for the best modelling study. The task is to derive a prediction model for pollen concentration using whatever approach is deemed more effective by the participants. This might include analytic, semi-analytic approaches, statistics, modelling and numerics.

See:
https://ecmiindmath.org/2020/03/16/ecmi-competition-modelling-and-prediction-of-pollen-concentration/

Journal of Mathematics in Industry is the ECMI journal dedicated to studies in Industrial Mathematics. In this period of the spread of the SARS-CoV-2 pandemic, scientists, and in particular mathematicians and statisticians, are investing an unprecedented amount of effort in trying to forecast and suggest measures to mitigate the ill-fated effects of the pandemic.

Knowing this pandemic will very likely deeply modify our future life, society, production, health management, and many other aspects of human life there is an urgent need to provide and record scientifically reliable studies of the many aspects of the problem to policy makers.

An upcoming special issue of Journal of Mathematics in Industry is devoted to collecting articles which propose data driven mathematical or statistical models of the spread of the SARS-CoV-2 virus, and/or of its foreseen consequences on public health, society, industry, economics and technology. See:
https://ecmiindmath.org/2020/04/05/journal-of-mathematics-in-industry-special-issue-on-covid19/

And finally, a new initiative from ECMI. The ECMI Special Interest Group on Virtual Education has been studying the potential of cooperation and exchange of educational resources among ECMI nodes as a means to alleviate the problems caused by the COVID-19 pandemic.

ECMI has collected from partners descriptions of courses, which have some level of on-line availability, asking the technical issues, the used platform, access rights, type of the course (synchronous, asynchronous) etc.

From these courses ECMI has selected various Master level courses given in English to build the basis for the “ECMI Net Campus”


Poul G. Hjorth
Poul G. Hjorth, Department of Applied Mathematics and Computer Science, Technical Univ of Denmark, and Exec. Dir. of ECMI, holds a PhD in mathematical physics from UCSD. Research interests are ODE & PDE, with applications to industrial mathematics.

Postponement of the 8th European Congress of Mathematics (8ECM); 2020 EMS prizes
Due to the covid-19 epidemics the organizers of the 8th European Congress of Mathematics and the EMS have decided to postpone it to next year. It will take place in Portorož, Slovenia on 20 - 26 June 2021. One of the innovations at the event will be an online streaming format, with the possibility for full and active E-participation, besides the regular conference format. See https://8ecm.si/news/68 (https://urldefense.com/v3/__https:/8ecm.si/news/68__;!!KGKeukYiZcCawDdb2YpGCBc0BzvpXt7yiOESju_BJI0s9dkuDirXn6PAIU; more information.

**2020 EMS prizes announced before the 8ECM**

Every four years, the EMS awards its 10 EMS Prizes, along with the Felix Klein Prize and the Otto Neugebauer Prize at the opening ceremony of the European Congress. The postponement of the congress required to innovate about this, so the prizes were announced in May. The winners of the EMS Prizes are:

Karim Adiprasito (Hebrew University of Jerusalem / University of Copenhagen)
Ana Caraiani (Imperial College London)
Alexander Efimov (Steklov, Moscow)
Simion Filip (Chicago)
Aleksandr Logunov (Princeton)
Kaisa Matomäki (Turku)
Phan Thanh Nam (LMU Munich)
Joaquim Serra (ETH Zurich)
Jack Thorne (Cambridge)
Maryna Viazovska (EPFL, Lausanne)

The Felix Klein Prize is awarded every four years “to a scientist, or a group of at most three scientists, under the age of 38 for using sophisticated methods to give an outstanding solution, which meets with the complete satisfaction of industry, to a concrete and difficult industrial problem.” The 2020 Felix Klein Prize winner is Arnulf Jentzen (University of Münster).

The Otto Neugebauer Prize is awarded every four years “for highly original and influential work in the field of history of mathematics that enhances our understanding of either the development of mathematics or a particular mathematical subject in any period and in any geographical region.” The 2020 Otto Neugebauer Prize winner is Karine Chemla (Université de Paris and CNRS)

See https://8ecm.si/prizes (https://urldefense.com/v3/__https:/8ecm.si/prizes__;!!KGKeukYiZcCawDdb2YpGCBc0BzvpXt7yiOESju_BJI0s9dkuDirXn6PAIU; more information about the laureates and their work.

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**International Webinar on “Mathematics in Industry: Challenges and Frontiers”**

The Office of International Affairs, The Maharaja Sayajirao University of Baroda in collaboration with the Department of Mathematics, Faculty of Science and Department of Statistics, Faculty of Science & Department of Applied Mathematics, Faculty of Technology and Engineering hosted an International Webinar on “**Mathematics in Industry: Challenges and Frontiers**” on June 3, 2020. The webinar coordinators were (Dr.) Dhanesh Patel, Director, Office of
International Affairs, the Maharaja Sayajirao University of Baroda and Prof. (Dr.) Colin Please, Mathematical Institute, University of Oxford, UK. The webinar was held on the ‘Google Meets’ platform and was also streamed live on ‘YouTube’. The primary objective of the webinar was to identify how to develop long term Academia-Industry partnerships to tackle industrial problems which might be understood by exploiting mathematical and statistical expertise. This unique International Webinar had key speakers who shared their vast experience of Mathematics and Industry from their country’s perspective and enabled the participants to understand how the beauty of Mathematical Technology can be harnessed to tackle many issues faced in the Industry.

The Webinar received an overwhelming positive response with over 1300 individuals from over 32 countries participating. The viewers in You Tube are 2564. The participants included distinguished academicians, industry leaders and students. The webinar was inaugurated by Professor (Dr.) Parimal Vyas, Hon. Vice Chancellor of the Maharaja Sayajirao University. Five distinguished academicians, Prof. (Dr.) Graeme Wake, Massey University, New Zealand; Prof. (Dr.) Colin Please, University of Oxford, UK; Prof. (Dr.) Wil Schilders, TU Eindhoven, Netherlands; Prof. (Dr.) Poul G. Hjorth, Technical University of Denmark, Denmark; and Dr. Ashleigh Hutchinson, University of the Witwatersrand, South Africa, were invited speakers and addressed the participants on the challenges and prospects of mathematics in industry.

The academic deliberations during the webinar were extremely fruitful and it was resolved to hold similar webinars in the future.

Watch the video (https://www.youtube.com/watch?v=WTTKZKV-aUA) on Youtube.

Press Release
Taken from a press release
Creation of the Standing Committee for Gender Equality in Science (SCGES)

ICIAM was one of the partners of the global project ‘A Global Approach to the Gender Gap in Mathematical, Computing and Natural Sciences: How to Measure It, How to Reduce It’, supported by ICSU and then ISC from 2017 to 2019. The website of that project is http://www.iciam.org/gender-gap-science-project and one can find there the final report and the various very interesting ‘results’ of the project. Some of the very good tools developed within the project have still to be made available to everybody, specially the partners and their members. We will inform our readers when they will become available to all.

A number of international organizations who took part in the project, and among them ICIAM, wish to act together to further promote gender equality in science by continuing and enlarging the work accomplished by this project and, in particular, by supporting women's and girls' equal access to science education, and by fostering equal opportunity and treatment for females in their careers. For this purpose they wish to act as Founding Partners for the establishment of a Standing Committee for Gender Equality in Science (SCGES). After having consulted its members, which approved it by a big majority, the ICIAM President signed recently the Memorandum of Understanding together with all founding members:

- International Astronomical Union (IAU)
- International Council of Industrial and Applied Mathematics (ICIAM)
- International Mathematical Union (IMU)
- International Union of Biological Sciences (IUBS)
- International Union of History and Philosophy of Science and Technology (IUHPST)
- International Union of Pure and Applied Chemistry (IUPAC)
- International Union of Pure and Applied Physics (IUPAP)
- Association for Computing Machinery (ACM)
- Gender in Science, Innovation, Technology and Engineering (GenderInSITE)

Further international organizations may join as partners later.

Among other things, the members of this Standing Committee are supposed to

- Endeavor to promote gender equality in their own structure, proceedings and scientific discipline, noting the recommendations of the Gender Gap in Science Project.
- Appoint a representative to SCGES; it shall also appoint a deputy representative who may stand in for the representative in case of need.
- Share with SCGES, and especially with its chair, all relevant information that can help promote gender equality in science.
- Within the limits of its capacity, set up projects and initiatives to promote gender equality in science; for this purpose they may seek cooperation with other members of the Standing Committee.
- Decide whether to contribute to projects and initiatives led by other partners and endorsed by the SCGES, and consider the modalities of this contribution.
- Share communications relevant to gender equality in science with its members and through its networks, by all means at its disposal, including social network accounts, website, newsletters and journals, electronic and in print.
- Call upon its member organizations or its representatives, if relevant, to set up national or regional initiatives to promote gender equality in science.
Maria J. Esteban
Maria J. Esteban is a senior researcher at CNRS and works at the University Paris-Dauphine. Her research area includes nonlinear partial differential equations, especially variational methods. Her term as President of ICIAM ended October 1, 2019.

Mathematical Congress of the Americas: MCA 2021 Call for Special Session Proposals

An Applied Mathematician's Guide to Online Meetings
With COVID-19 practically cancelling all but essential travel, conferences, workshops, and seminars have turned to the virtual meeting space in cyberspace. Conference organizers are finding new and innovative ways to make online meetings fun and enjoyable, including separate channels for informal coffee breaks, slack channels for follow-up questions, and even breakout sessions and mini-symposia.

Two types of events have sprung up. First, a number of conferences and workshops that had already been scheduled to take place in physical venues have been converted to online meetings. Some have already taken place and their content is available online. A partial list of meetings includes

Past Meetings (online content available):
- SIAM Conference on Mathematics of Data Science (MDS20) https://www.siam.org/conferences/cm/conference/mds20
- SIAM Conference on Life Sciences (LS20) https://www.siam.org/conferences/cm/conference/ls20

Upcoming Meetings (current at time of this publication):

• SIAM Conference on Imaging Science (IS20) July 6-17, https://www.siam.org/conferences/cm/conference/is20
(https://www.siam.org/conferences/cm/conference/is20)
• Second Joint SIAM/CAIMS Annual Meeting (AN20) July 6-17, https://www.siam.org/conferences/cm/conference/an20
(https://www.siam.org/conferences/cm/conference/an20)
• SIAM Workshop on Network Science (NS20) July 9-10, https://www.siam.org/conferences/cm/conference/ns20
(https://www.siam.org/conferences/cm/conference/ns20)
• MPE20 (Mathematics of Planet Earth) most likely happening Aug. 3-14, program will be available from website:
https://www.siam.org/conferences/cm/conference/mpe20
(https://www.siam.org/conferences/cm/conference/mpe20)
• ED20(Applied Mathematics Education) currently weighing option of offering some content online:
https://www.siam.org/conferences/cm/conference/ed20
(https://www.siam.org/conferences/cm/conference/ed20)

A recent workshop, organized by ECMI, https://ecmiindmath.org/2020/05/04/mathematics-of-the-covid19-
(https://urldefense.com/v3/__https://ecmiindmath.org/2020/05/04/mathematics-of-the-covid19-
__;!!KGKeukYliF3iPPdhvvcafm344SiviXEwmQ5Ki0oZkZtgqxGBD9g4LD5hJ1XLF Ejuye-5KzwPvNO0e7FxXg$)crisis-
an-ecmi-webinar, is reported on elsewhere in this issue of ICIAM Dianoia.

In addition, there are many **Ongoing Seminar Series** of interest to the ICIAM community. A comprehensive list of research seminars can be found at https://researchseminars.org/ (https://researchseminars.org/). This is a searchable site that includes seminars in a number of fields.

Some seminars of particular interest to ICIAM members include

• Discrete Optimization Talks (DOTs) https://talks.discreteopt.com/ (https://talks.discreteopt.com/)
• One World Imagine Seminars (Imaging and Inverse Problems) https://sites.google.com/view/oneworldimagine
(https://sites.google.com/view/oneworldimagine)
• Center for Mathematics and Artificial Intelligence Colloquium
http://cmai.science.gmu.edu/index.php/events#colloquium
(http://cmai.science.gmu.edu/index.php/events#colloquium)
• E-NLA Online seminar series on Numerical Linear Algebra https://sites.google.com/view/e-nla/home
(https://sites.google.com/view/e-nla/home)
• One World Optimization seminar https://owos.univie.ac.at (https://owos.univie.ac.at)
• One World PDE Seminar https://people.bath.ac.uk/mw2319/owpde/ (https://people.bath.ac.uk/mw2319/owpde/)

Many apologies if this eclectic list has omitted a seminar that you follow or organize and would like to publicize.
Please send additional items to keyfitz.2@osu.edu (mailto:keyfitz.2@osu.edu) and we will include them in the next issue of ICIAM Dianoia.

The Editors

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**A New International Mathematical Conference Center in Sochi (Russia): Call for Proposals for 2021**

The Center was established at the end of 2019, and held its first 3 workshops in February 2020, just before the coronavirus pandemic broke out. The information about the SMC, past events and the schedule for the rest of 2020 may be found at https://sochisirius.ru/smc (https://sochisirius.ru/smc). The webpage also provides descriptions for the
Center activities and what support it offers to organizers and participants of the Center's events concerning travel and living expenses.

The Sirius Mathematics Center (SMC) in Sochi, Russia opens the call for proposals for workshops, schools for young researchers, and group work meetings to be held in 2021. The proposals for 2021 are being accepted until September 7, 2020. Please follow the guidelines on the SMC webpage in your application.

Maria J. Esteban

Maria J. Esteban is a senior researcher at CNRS and works at the University Paris-Dauphine. Her research area includes nonlinear partial differential equations, especially variational methods. Her term as President of ICIAM ended October 1, 2019.

Memoriam: Professor Abul Hasan Siddiqi

We regret to announce that Professor Abul Hasan Siddiqi, Professor Emeritus at Sharda University, Greater Noida, passed away suddenly on 20 January, 2020, at the age of 77. He was an accomplished applied mathematician and played an important role in the development of the subject in India, mentored many young students in their research, and, besides his activities at Sharda University, was closely connected to his Alma Mater, Aligarh Muslim University (AMU). He was for many years the Secretary of the Indian Society of Industrial and Applied Mathematics (ISIAM), and was serving his term as its President at the time of his death. He will be missed by his family, his many friends and colleagues.

Professor Siddiqi received his Ph.D. from AMU in 1967. After two years of post-doctoral work in Germany, he joined AMU as a faculty member where he rose to the rank of Professor and served as the chairman of the Department of Mathematics, Provost of the Hall of Residence, Member-in-Charge of the AMU Press, Dean of the Faculty of Science, Chief Election Officer of the AMU and AMU students' union. He held visiting appointments in different parts of the world including USA, Canada, Germany, Iran, Algeria, Saudi Arabia, Oman and Malaysia. From December 1973 to August 1975 Siddiqi was a visiting professor at the University of Tabriz, Iran; from October 1980 to April 1983 at Constantine University, Algeria. From October 1998 to April 2007 he was employed as a Professor of Mathematics at the King Fahd University of Petroleum and Minerals, Saudi Arabia, and was also awarded DAAD fellowship at the Institute of Industrial and Business Mathematics, University of Kaiserslautern. He was a Senior Associate of the International Centre for Theoretical Physics (ICTP) in Trieste, Italy, and served the Gautam Buddha University from 2011 to 2013 towards whose development he contributed significantly.

Many applied mathematicians in India and around the world knew Siddiqi not only for his scientific work and the textbooks as well as monographs that he co-authored, but also for his leadership in the applied mathematics community. One of his passions was ISIAM, which served as a platform for his international connections and his great desire to further the careers of many young students. The (roughly) biennial meetings that he organized under...
the Society's aegis were events that attracted diverse groups of participants from abroad and India, and held the community together with his attention to detail, his phenomenal energy and the large number of connections and friendships that he cultivated over time. He leaves behind a large vacuum.

Pammy Manchanda  
Guru Nanak Dev University, Amritsar  
Joint Secretary, ISIAM

R.C. Singh  
Sharda University  
Greater Noida

K.R. Sreenivasan  
New York University  
New York, USA

The ICIAM newsletter was created to express the interests of our membership and partner organizations and the views expressed in this newsletter are those of the authors and do not necessarily represent those of ICIAM or the Editorial team. We welcome articles and letters from members and associations, announcing events, on-site reports from events and industry news.

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