



Annual Report

July 1st, 2022 - June 30th, 2023

Background

The aim of the Scandinavian Academy of Industrial Engineering and Management (ScAIEM) is to strengthen academic education and research within the field of Industrial Engineering and Management (IEM) in Denmark, Finland, Iceland, Norway, and Sweden.

ScAIEM was founded in Linköping, November 28, 2012. Based on the experience from earlier Swedish national conferences, there was a strong consensus about the need for an organized professional community for scholars working within the fields of industrial engineering, technology management, business creation, etc., at the faculties of engineering in the Nordic countries.

Activities of 2022-2023 Mats

ScAIEM is organizing all major Nordic departments within the IEM-field; today 25 departments in total, representing more than approximately 650 faculty and PhD students in the five Nordic countries. However, we hope for some more incoming members in the near future.

ScAIEM constitutes a network representing our own professional expertise and identity. The annual ScAIEM conference is a key event during the academic year and there are increasing informal contacts and knowledge sharing between the ScAIEM members.

During the academic year of 2022-23, the board of ScAIEM has continued our academic networking activities, now comprising the following:

- *The ScAIEM Annual Conference*
- *The ScAIEM homepage*
- *The Young Scholars of ScAIEM network*
- *The Head of Department Summit*
- *The PhD Candidate Workshop*
- *The IEM Program Director Council*
- *The Head of Doctoral Education Council*
- *The ScAIEM Doctoral Thesis Award*
- *The Seed Money Grant for Nordic IEM Collaboration*

In addition, two new projects have been initiated during the fiscal year of 2022-23:

- *The first call for funding of Nordic PhD Courses in IEM:*
Two applications were awarded funding. However, only one of the courses has been conducted so far (see page 12). The board has decided to assess whether to continue with this instrument when the second course has been completed.
- *ScAIEM Teaching Achievement Award:*
The first call for nominations to the ScAIEM Teaching Achievement Award were announced in June 2023. The intention is that this should be an annual award with the same prestige as the Thesis award.

Overall, ScAIEM are today organizing several thriving arenas and activities. However, one of our most significant challenges is still to find ways to reach out with information to all the scholars of our institutional members. In addition, the board welcomes all ideas of initiatives that can further strengthen our professional community.

Governance

Board

The ScAIEM board has had the following members since the Annual Meeting, November 2020:

- Mats Engwall,
KTH Royal Institute of Technology (chairperson), elected to the annual meeting 2023
- Christine Ipsen,
Technical University of Denmark, (vice chairperson, secretary), elected to the annual meeting 2024
- Janne Huiskonen,
Lappeenranta-Lahti University of Technology LUT (treasurer), elected to the annual meeting 2023
- Hanne Finnestrand
Norwegian University of Science and Technology (seed money grant), elected to 2023
- Eskil Sönju Le Buyn (Goldeng) (communications),
University of South-Eastern Norway, elected to the annual meeting 2024
- Mathias Henningsson
Linköping University, (PhD thesis award, teaching achievement award), elected to the annual meeting 2024.
- Gudmundur Valur Oddson,
University of Iceland (seed money grant), elected to the annual meeting 2024.
- Lovisa Annerwall,
Mälardalen University (PhD student representative), elected to the annual meeting 2023

The board has had eight board meetings during the fiscal year of 2022-2023 of which six held online (September 28th, October 2nd, and 30th, 2022, and March 1st, April 17th, and June 7th, 2023) and two meetings on location in Copenhagen January 23rd – 24th 2023, and in Kongsberg August 28th-29th 2023. Minutes have been taken at all board meetings and are available to all board members.

Administration

ScAIEM has its administrative basis at the Institute of Management of Innovation and Technology (IMIT), situated in Gothenburg, Sweden. IMIT is a Swedish, non-profit foundation with the aim to pursue and promote research and development, as well as education, in technological and industrial renewal and management (www.IMIT.se).

IMIT hosts the ScAIEM website and supports with invoicing, accounting, and financial reports, as well as general competence and administrative resources. In addition, IMIT has sponsored the major dinner at the INDEK and ScAIEM-conferences, since the start in 2009.

Invoices to ScAIEM should be addressed:

Stiftelsen IMIT
Project: ScAIEM
41296 GÖTEBORG

All common documents and files of ScAIEM are archived at a ScAIEM Google drive site.

Initiatives have been taken to document and gather the administrative procedures of ScAIEM in an administrative handbook. This work is ongoing.

Marketing and External Communication

Home Page

The ScAIEM homepage (www.scaiem.org) went through a major update in the academic year 2016-17 and is updated regularly with posts from members about vacant jobs, and PhD courses. The website dedicated to the IEM educations is linked as one of the menu items at the top. The design of the page has been somewhat outdated and needs reorganizing. The development of the webpage has been incremental the past year, only smaller changes have been implemented. The backend solution/admin tool of the current site is not optimal, but the flexibility is ok.

We are currently working on a new version of the website that will be available ultimo 2023. The aim with the new version is to get a website with a cleaner, tidier, and easier layout that is easier to update, change and navigate. In addition, we will implement an easily accessible archive of previous events, and a news section. In short, the user interface and backend of the website is going to be renovated.

ScAIEM is in control of the following web-domains: *scaiem.se*, *scaiem.dk*, *scaiem.fi*, and *scaiem.no*. The web-domain *scaiem.se* is redirected to *scaiem.org*.

Social Media

A Facebook group was created at the 2016 conference. As of November 2023, the page has 287 followers. Among our followers we have 42% women and 62% Swedes. In addition to the geographical domain of our community, we also have followers from France, Italy, Mexico, Germany, Serbia, and UK. Approximately 14% of our followers are from Stockholm.

Usually, between 80 and 200 persons are reached through a typical post, but during the confer-

ences the numbers are typically much higher. The posts from the conference at KTH in Stockholm (so far, the last one IRL) reached between 500 and 2,100 persons. During the last year our posts reached just short of a hundred persons on average.

Please visit, like, and follow at <https://www.facebook.com/scaiem>, and develop and keep in touch with the IEM-community by posting any discussion topic or event that you feel is relevant.

Google

As a part of our efforts to keep our academic community updated about our activities and ease the administration of our network, we have migrated to Google. By using the services from Google, we can maintain the GDPR validated register of emails used to contact all our members, , and we have space for an extensive archive of documents, pictures and other digital material available to the board.

An email archive is maintained on our Google account, where all the emails associated with ScAIEM's activities can be accessed for the current and future boards. Currently, 524 email addresses are registered in the system, and are used for getting in touch with the members of our community. The number of emails can also be viewed as a proxy for the interest in our community; they are not evenly distributed across institutions (KTH is the largest), but the average is approximately 20 per institution. The main purpose of the register is to reach our members with information about our most important activities. The table below shows the number of listed email addresses by institution. The list has been slightly edited, as we have aggregated members among faculty in (e.g.) engineering, business, and design departments at the different institutions. Consequently, the table only reflect institutional affiliations, not departments.

Institution.country	Emails
aaau.dk	2
aalto.fi	34
uu.se	3
usn.no	6
uia.no	3
tut.fi	4
tuni.fi	10
studentlitteratur.se	1
sanomautbildning.se	2
sam.sdu.dk	1
ru.is	1
rise.se	1
oulu.fi	26
oru.se	4
ntnu.no	12
miun.se	4
mdh.se	36
made.dk	1
lut.fi	64
lu.se	1
ltu.se	59

lth.se	30
liu.se	31
liber.se	4
kth.se	108
kau.se	2
ju.se	4
imit.se	2
hubroeducation.com	2
hig.se	2
hi.is	1
hh.se	4
grubbstrom.com	1
ericsson.com	1
dtu.dk	19
chalmers.se	27
celog.dk	1
abo.fi	4
Totalt	521

The Google account of SCAIEM is protected with a two-step verification, meaning that anyone who wants access to the account needs both the password of the account, and login information that is sent by SMS to a dedicated phone upon request.

SCAIEM own four functional email addresses:

- president@scaiem.org
- treasurer@scaiem.org
- secretary@scaiem.org
- info@scaiem.org

The name of the SCAIEM Google account is scaiem.info@gmail.com.

Announcements about PhD courses and vacant positions on the webpage are free for all members. The announcements can also be posted on our Facebook page for free.

Membership

SCAIEM have 25 institutional members. During the year, Reykjavik University has decided to leave SCAIEM. However, all leading IEM institutions in the Nordic region are members. However, there are still a small number of institutions, especially in Sweden, that remain to be recruited.

- Denmark: 3 institutional members.
- Finland: 5 institutional members.
- Norway: 3 institutional members.
- Sweden: 13 institutional members.
- Iceland: 1 institutional member.

The SCAIEM Annual Conference 2021

The ten-year anniversary of the SCAIEM Conference was organized by the Division of Industrial Engineering and Management at Uppsala University. The conference lasted three days, 9-11 November 2022. The conference was organized fully “in real life” (except for the occasional Zoom participant in the pre-conference workshops), and it was wonderful to finally be able to meet up again with friends and colleagues. The idea of the conference was to engage with the concept of “missions” in IEM which we thought was a timely issue given the importance given to mission-oriented innovation policy and related phenomena. The conference theme was “The new missionaries? Mission-oriented approaches within Industrial Engineering and Management”. The conference attracted 132 participants and the exhibitor Studentlitteratur.

On Wednesday 9 November, we organized the SCAIEM PhD Workshop, Head of Departments Summit, the IEM Program Director Council, and the Head of Doctoral Education Council, as well as the new session Principal Investigator / Head of Research Summit. The last session was created as we saw a need for a meeting space for researchers leading larger research initiatives within IEM to share their experiences. After that we had a reception in the Chancellor’s room, followed by a dinner at the Uppsala Castle.

On Thursday 10 November, the conference continued with different sessions within research and education, as well as a “Meet the SCAIEM Editors” where Research Policy, Gender, Work, and Organization, Creativity and Innovation Management, and Management of Innovation and Technology (IMIT), Industrial, and Corporate Change, International Journal of Project Management, International Journal of Production Economics, and International Journal of Workplace Health Management were represented. A keynote speech on “The Mission(s) of Industrial Management in an Age of Augmented Technologies” was delivered by Alf Rehn from the University of Southern Denmark. The day was finalized with the SCAIEM General Assembly, and the IMIT Gala Dinner at Norrlands Nation, where the winner of the PhD Award and SCAIEM Seed Money were announced. A grant of 50.000 SEK was kindly provided by IMIT.

On the last day (11 November), there were parallel sessions and a concluding plenary event. The conference ended at 12.30 with a take-away meal.

Given the quite low registration fees, as well as a quite generous social program, the conference ran at a (planned) deficit.

The Young Scholars of SCAIEM

The Young Scholars of SCAIEM aims to enhance professional exchange between young scholars (e.g., PhD students, post-docs, and other junior researchers) in the Nordic countries in the field of Industrial Engineering and Management. Young Scholars of SCAIEM started to take its shape after the SCAIEM conference 2017, in which its agenda was officially introduced.

During the academic year of 2022-2023 the activities of the Young Scholars of SCAIEM were organized by the PhD student representative in the SCAIEM board and volunteering Young Scholars.

Spring workshop for Young Scholars of ScAIEM

The 7th Young Scholars of ScAIEM Workshop was organized on May 8th-9th 2023, on campus at Mälardalen University (MDU), Västerås, Sweden. This year was the first time the Young Scholars workshop was arranged as a 2-day event, following feedback given at previous workshops. As previous year, the workshop pre-started with an unofficial dinner at participant's own expense on the 7th of May.

The aim of the event was to invite young scholars to participate in a workshop to present their research, receive feedback, review work of others and expand their professional network. There was also a wish to inspire collaboration with industry and a study visit to one of MDU's collaboration partners, Hitachi Energy, was arranged.

ScAIEM received 22 submissions to participate in the workshop and after some withdrawals the total amount of participants was 17. The workshop mainly attracted PhD students (16) but also one (1) scholar who recently defended their thesis. 15 of the participants participated with a full paper manuscript or research proposal to conduct and receive a friendly review. The number of participants was manageable but put some demands on planning and execution of workshop, as finding the right facilities, restaurants, schedule, participating faculty members, and more.

The first day of the workshop started with a 2-hour study visit at Hitachi Energy's plant at Finnslätten, Västerås. The young scholars were given a 1-hour lecture with introduction to the operations of Hitachi Energy, followed by a tour of the plant site. Subsequently, the participants went back to MDU for lunch before being officially welcomed and introduced to MDU. After this, the paper presentations started. The participants were divided into three groups of five people. Each participant presented their work and reviewed one other paper. The groups were also paired with a senior faculty giving feedback to each student in their group. In total seven senior scholars from MDU participated in this part of the workshop. With the small groups of five students each, the reserved time of three hours for the presentations and discussions of the participants' work was reasonable. However, the rest of the schedule the first day was a bit tight and more time should be accounted for moving between locations, rooms, and rest room breaks. The first day ended with dinner at a restaurant in Västerås, sponsored by the host university MDU.

The second day started with some reflections on the first day, before engaging in a 2-hour interactive session on the future of IEM. Aligned with the three themes of digitalization, globalization, and sustainability, the participants got to discuss their role as IEM researchers and how they can connect and contribute to the future. The discussions were supported by local faculty members engaging with the different themes. The second day ended with a 30-minute wrap up with reflections and some general discussions about the workshop, where information was given about upcoming ScAIEM arrangements.

Overall, the 2-day workshop went well and was full of discussion on various research topics within IEM. The study visit to Hitachi Energy was interesting and inspiring even though it did not connect directly to the participants' own research. The opportunity to see an industry plant from the inside was appreciated. Many participants appreciated the extension to two days and suggested to keep this to a 2-day workshop. This is especially important for the social aim of networking and extending the ScAIEM community. The participants found the atmosphere friendly and positive, and they are looking forward to participating in future ScAIEM events.

The workshop acts as a platform to introduce young scholars to ScAIEM and keep them informed about future ScAIEM events. Many of the participants of the Spring workshop take part in the PhD workshop organized in connection with the ScAIEM Annual Conference. Also, for recent graduates, the ScAIEM thesis award is an opportunity to showcase their research in the field of IEM.

Plans for the future

A suggestion is to keep the Spring workshop as a physical 2-day event and test the demand for this set up an additional year, as the first response was positive with an increased number of applications. The study visit was appreciated and should also be kept if possible.

To attract participants, it is important to reach out early and communicate about the workshop. New scholars are best reached through their senior colleagues and supervisors, and others who have participated in ScAIEM events previously.

ScAIEM Doctoral Thesis Award

The winner of the ScAIEM thesis award 2022 was:

- Helena Fornstedt, Uppsala university, Sweden, with the thesis “Innovation Resistance: Moving Beyond Dominant Framings”.

Helena’s thesis aims to shed light on central presuppositions and limitations of knowledge production on innovation and innovation resistance. She empirically explores the manifestation of innovation resistance and the dynamics involved in its entanglement with innovation processes. This is achieved through reviews of extant literature combined with an actor-network analysis of interviews, public documents and news articles concerning three different innovation processes.

Helena’s thesis is a well-written and carefully argued critique of mainstream conceptions of innovation opening for refreshing theoretical as well as practical questions. The thesis is grounded on solid fieldwork and the format of a monograph allows for a thorough articulation of both theoretical arguments and empirical detail. Knowledge developed through this work has societal relevance since it complicates our understanding of the relation between sustainability and innovation by including the values and agendas of more actors than what we usually do.

In 2022, ScAIEM received three nominations according to the new format for nominating. The other two nominated theses were:

- Tatiana Nevzorova with her thesis “Barriers, drivers and context environment of technological innovation: An analysis of the biogas industry in Russia”
- Matti Rissanen with his thesis “EcoGame and Ecosystem Profiler: Solutions for Business Ecosystem Management”

The committee that evaluated the nominations was composed by:

- Tuomas Korhonen, Tampere University, Finland
- Merete Nørby, Made (Manufacturing Academy of Denmark)
- Josef Oehmen, DTU, Denmark
- Jonas Ingvaldsen, NTNU, Norway

- Lucia Crevani, Mälardalen University, Sweden

Seed Money Grant to Enhance Nordic IEM Collaborations

In 2019, ScAIEM initiated a new initiative to offer *seed money* to facilitate collaboration across Scandinavian IEM scholars. The purpose is to initiate and increase collaboration, for example, in the form of short research exchange to generate ideas and activate new projects or papers; preparation of bigger joint funding applications (e.g., EU); co-authoring joint scientific papers, or books.

During the Spring of 2022, the board called for new proposals. We received four applications, and the grant was given to :

- Anna Bergek (Chalmers, Sweden), Eva-Lotta Apajalahti (LUT, Finland), and Ville Ojanen (LUT, Finland).

After a few years of applications from colleagues who do not belong to the IEM units at their universities, we found it necessary to clarify that it was necessary that at least the main applicant must belong to the IEM unit at his or her university. By IEM-unit, we mean the research unit, department, or faculty that constitutes the institutional member of ScAIEM.

The ScAIEM Call for Nordic PhD Courses in IEM

At the ScAIEM conference 2022, two team of ScAIEM scholars were awarded grants to design new PhD courses in IEM:

- **Sustainable Energy Transitions - Technology and Management Perspectives (KTH, DTU, LiU, NTNU).**
Conducted 13 – 15 March 2023. Established as regular course at KTH.
- **Responsible organizing and managing hybrid-work – The way forward (DTU, UU, MdU, NTNU)**
Postponed. Planned to May 2024.

ScAIEM PhD Winter School “Sustainable Energy Transitions - Technology and Management Perspectives”

The ScAIEM PhD winter school “Sustainable Energy Transitions - Technology and Management Perspectives” (5 credits) was held on 13 – 15 March 2023 at KTH Royal Institute of Technology in Stockholm. The PhD winter school was organized by the KTH Royal Institute of Technology, Sweden, in collaboration with the Technical University of Denmark DTU, Denmark; the Norwegian University of Science and Technology NTNU, Norway, and Linköping University LiU, Sweden.

The ScAIEM winter school on sustainable energy transitions is a multidisciplinary PhD course package that offers doctoral students a training in innovation and technology management, sustainable business and entrepreneurship, as well as policy processes related to sustainable energy transitions. The course package deals with the challenges and opportunities that drive transformations of energy systems and energy-related industries. This includes discussing the relevance of global challenges like climate change and sustainable development and analyzing

how they contribute to transformations of energy systems and industries. Specific parts of the course focus on research methods as well as career training.

24 selected PhD students from the Nordics and beyond participated in the course in Stockholm in 2023. About two thirds of the PhD students came from a technical background (e.g. engineering), whereas about one third came from a social science background (e.g. economics). The course evaluation was very positive, with students valuing the overall content of the course, as well as individual lectures and seminars.

For 2024, the course directors received further funding from the KTH Sustainability Office to set up the course as a regular course that is running every year at KTH. It has been expanded to 7.5 credits and will take place on 4-8 March 2024.

See <https://www.kth.se/student/kurser/kurs/FME3550>

Contact details:

- Prof. Frauke Urban, Department of Industrial Economics and Management (INDEK), KTH. Email: Frauke.urban@indek.kth.se
- Assistant Prof. Saman Nimali Gunasekara, Department of Energy Technology (EGI), KTH. Email: saman.gunasekara@energy.kth.se

ScAIEM PhD Summer School “Responsible organizing and managing hybrid-work – The way forward”

The New PhD course in IEM “Responsible organizing and managing hybrid-work – The way forward” was designed and planned by the following team of ScAIEM SColared

The team included the following:

Technical University of Denmark (DTU):

- Associate Professor Christine Ipsen, DTU Management Denmark (Course responsible)
- Associate Professor Kathrin Kirchner, DTU Management, Denmark
- Senior Researcher Kasper Edwards, DTU Management, Denmark
- Professor Emeritus, Per Anker Jensen, DTU Management, Denmark

Uppsala University:

- Professor Thomas Lennerfors, Department of Civil and Industrial Engineering, Sweden
- Researcher Simon Okwir, Dep. of Civil and Industrial Engineering, Sweden

Mälardalen University (MdU):

- Professor Lucia Crevani, Div. of Organization and Management, Sweden
- Senior Researcher Britta Nordin Forsberg, Div. of Organization and Management, Sweden

NTNU:

- Associate Professor Ola Edvin Vie, Dep. Of Industrial Economics and Technology Management, Norway

The online-only PhD course invites students from IEM and related fields to exchange knowledge and learn from each other and Scandinavian faculty in relation to management, hybrid-work, digital technologies, change management, organizational behavior etc.

The 3-day ScAIEM PhD School introduces core theories and models for hybrid-work, from understanding the drivers for hybrid-work, the effect on people, work design and performance,

how to create proximity and virtual collaboration using new technologies and emerging challenges. Throughout the course, participants will try different technologies that enable hybrid work (e.g., Virtual Reality), work with their own research and apply theories and models to analyze and make recommendations with the concern for how to manage and organize responsibly both people and performance. In particular, the following topics are discussed:

- Hybrid-work – advantages and disadvantages
- Virtual collaboration and use of new technologies
- Technological domain – ICT and built environment for hybrid work
- Ethical issues of using new technologies at the workplace
- Organization and leadership
- Well-being, Macro-ergonomics, and Organizational Design
- Academic writing

The original plan was to run the course during spring 2023, but with only a few registered participants, the team decided to postpone the course to later. At the following SCAIEM board meeting, the board decided to postpone the course even further, to spring 2024, to allow for marketing and planning among the IEM PhD students. The course is now planned to run in May 2024.

Financial statement (Year 20220701-20230630)

The income statement covers membership fees and costs for the period 20220701-20230630.

Income statement for the period ended 30 June 2023

<i>Item</i>	<i>Information</i>	<i>SEK</i>
	Income	
1.	Institutional membership fees	262.222,20
2.	Other income	0
3.	<i>Total gross income</i>	262.222,20
	Expenses	
4.	Web page expenses	1.309,00
5.	Administrative costs	43.612,64
6.	Board travel costs	53.269,52
7.	Project costs	237.340,11
	Branding & Marketing	0
	Young scholars of ScAIEM network	24.599,64
	Mapping Nordic IEM programs	16.560,00
	ScAIEM Conference support	41.151,47
	ScAIEM Annual Thesis Award	57.229,00
	PhD-courses	50.000,00
	Seed Money for Joint Nordic research 2022/23	47.800,00
8.	<i>Total expenses</i>	335.531,27
9.	Net surplus(+) / deficit (-)	- 73.309,07

Balance sheet at 30 June 2023

<i>Item</i>	<i>Information</i>	<i>SEK</i>
	Assets	
10.	Cash at IMIT Account	643.736,35
11.	<i>Total assets</i>	643.736,35
	Equity	
12.	Annual Conference Guarantee Fund	100.000,00
13.	Surplus brought forward	617.045,42
14.	Net surplus of the year	-73.309,07
	Liabilities	
15.	<i>Total Equity and Liabilities</i>	643.736,35

The SCAIEM Years in Summary

2009

- The first Swedish academic national conference (Swe: “ämneskonferens”) in Industrial Engineering and Management (“industriell ekonomi”) INDEK 2009, was organized at KTH Royal Institute of Technology in Stockholm, November 26-27. Almost 100 attendees.

2010

- The Swedish national conference INDEK 2010 is organized at Chalmers University of Technology, November 11-12

2011

- The Swedish national conference INDEK 2011 is organized at Blekinge Institute of Technology, 10-11 November.
- The first IMIT PhD Student Poster Competition is launched.

2012

- *ScAIEM* is founded in Linköping, November 28, and announced at the Swedish national conference INDEK 2012 at Linköping University, November 29-30.

2013

- First board meeting of ScAIEM, January 23, at KTH in Stockholm.
- Formation of the board and administrative routines.
- Establishment of the cooperation with IMIT.
- Establishment of web-domains, development of web page, etc.
- Marketing of ScAIEM and the idea of a Scandinavian community of IEM institutions and scholars.
- First ScAIEM conference with all-Scandinavian attendance, Lund 27-29 November.

2014

- Invitation letter to potential institutional members in Scandinavia., February.
- Åbo Akademi, Turku, becomes the first paying member of ScAIEM, March.
- The Finish Doctoral *Arctic Workshop*, established since 20 years, merges with ScAIEM, and is organized as a PhD workshop November 17, the day before the main ScAIEM-conference.
- ScAIEM Conference at Aalto University, November 18-19.
- ScAIEM has 15 institutional members, representing all major programs in the field in Scandinavia and approximately 350 scholars.

2015

- ScAIEM Conference at the Technical University of Denmark, November 18-20.
- The first Annual General Meeting is held at November 19.
- The first ScAIEM PhD-course is organized by LTU.

2016

- *Industriell ekonomi* (Industrial Engineering and Management) becomes formally recognized as a subject in the field of Mechanical engineering in the Swedish national statistics (SCB), September 2016.

- SCAIEM has 21 institutional members, representing all major institutions and approximately 550 scholars in the IEM-field in the Nordic countries.
- SCAIEM Conference at Luleå Technical University, November 28-30
- First *SCAIEM Head of Department Summit* meeting for IEM Heads of Departments is organized on November 28, the day before the main SCAIEM conference.
- First *SCAIEM IEM Program Directors Council* is organized on November 28, the day before the main SCAIEM conference.
- The *SCAIEM conference* grows with various pre-conference activities, e.g. the workshop on *Space Innovation* in Kiruna, November 25-26.

2017

- *SCAIEM Young Scholars Network* is established to enhance the professional exchange between Nordic PhD students and junior scholars in the field of IEM.
- The *SCAIEM website* is totally upgraded.
- Adjustment of the statutes: change of fiscal year and the addition of a PhD student representative at the Board.
- Logotype competition for IEM students.
- SCAIEM continues to grow and has 24 institutional members, representing approximately 600 IEM scholars.
- *SCAIEM Conference* at NTNU, November 27-29
- The second SCAIEM PhD-course is organized by LTU.

2018

- The SCAIEM logotype and graphical profile is established.
- The second *Spring Workshop* of the Young Scholars of SCAIEM was organized at Chalmers in April 2018.
- The *SCAIEM Doctoral Thesis Award* is established with a prize SEK 25,000: -
- SCAIEM starts to financially support candidates' participation in the SCAIEM PhD Candidate Workshop
- A mapping project identifying all educations in Industrial Engineering and Management within the Nordic countries is executed.
- SCAIEM Conference at University of Oulu, November 26-28

2019

- Instituting the *SCAIEM Seed Money Grant for Joint Nordic IEM Research*
- An interactive homepage with all Nordic IEM educations is established.
- The third Spring Workshop of the Young Scholars of SCAIEM was organized at Aalto University in April 2019.
- SCAIEM Conference at KTH Royal Institute of Technology, Stockholm, October 14-16
- *First SCAIEM Head of Doctoral Education Council* is organized on October 14, the day before the main SCAIEM conference.
- First draft of a SCAIEM Conference Handbook is produced.

2020

- The Covid-19 pandemic strikes the world and affects the SCAIEM activities negatively.

- *ScAIEM Conference 2020* is organized as a one-day on-line conference due to the pandemic, November 16, Technical University of Denmark, Copenhagen
- A mapping project identifying PhD educations in Industrial Engineering and Management within the Nordic countries is executed.

2021

- The ScAIEM activities are maintained, despite the global Covid-19 pandemic.
- Survey of challenges and collaboration possibilities in PhD educations in Industrial Engineering and Management within the Nordic countries is executed.
- *ScAIEM Conference 2021* is organized as a two-days on-line event due to the pandemic, November 18-19, Technical University of Denmark, Copenhagen.

2022

- The Covid-19 pandemic continues to hold a grip of our community during the winter/spring of 2022.
- The first call for funding *ScAIEM IEM Doctoral Courses*.
- The first *ScAIEM Conference Handbook* is published.
- An update of the mapping of Industrial Engineering and Management programs within the Nordic countries is executed.
- *ScAIEM Conference 2022* is back in real life and as a three-day conference, November 16-18, organized by Uppsala University.

2023

- *ScAIEM Young Scholars Network's* Spring workshop is for the first time organized as a two-day event. Organized by Mälardalen University, Sweden.
- *ScAIEM IEM Winter Course on "Sustainable Energy Transitions - Technology and Management Perspectives is organized"* by KTH, DTU, NTNU, and LiU.
- The *ScAIEM Teaching Achievement Award* is established.
- *ScAIEM Conference 2023* is organized by University of South-Eastern Norway, Kongsberg Nov 28- Dec 1, 2023
- ScAIEM has 25 institutional members.

Conferences Since 2009

Swedish INDEK-Conferences:

- 2009, November 26-27, KTH Royal Institute of Technology, Stockholm
- 2010, November 11-12, Chalmers University of Technology, Gothenburg
- 2011, November 10-11, Blekinge Institute of Technology, Karlskrona
- 2012, November 28-30, Linköping University, Linköping

Scandinavian ScAIEM-Conferences:

- 2013, November 27-29, Lund University, Lund
- 2014, November 17-19, Aalto University, Helsinki
- 2015, November 18-20, Technical University of Denmark, Copenhagen
- 2016, November 28-30, Luleå Technical University, Luleå
- 2017, November 27-29, Norwegian University of Science and Technology, Trondheim
- 2018, November 26-28, University of Oulu, Oulu

- 2019, October 14-16, KTH Royal Institute of Technology, Stockholm
- 2020, November 16, Technical University of Denmark, Copenhagen (over internet)
- 2021, November 18-19, Technical University of Denmark, Copenhagen (over internet)
- 2022, November 9-11, Uppsala University, Uppsala
- 2023, November 28-December 1, University of South-Eastern Norway, Kongsberg
- 2024, Chalmers University of Technology, Gothenburg (planned)
- 2025 University of Iceland, Reykjavik (planned)
- 2026, Technical University of Denmark, Copenhagen (planned)

ScAIEM Thesis of the Year Award

- 2018, *Dr. Kajsa Ahlgren Ode*, Department of Design Sciences, Lund University, with the thesis “Travelling Business Models”.
- 2019, *Dr. Lotta Lind*, Department of Industrial Engineering and Management, Lappeenranta-Lahti University of Technology LUT with the thesis “Identifying working capital models in value chains: Towards a generic framework”.
- 2020, *Dr. Helle Lohmann Rasmussen*, Department of Management, Technical University of Denmark, with the thesis: “Integrating operational knowledge in design of new buildings to improve facility performance: A comparative study of building and large ship projects”.
- 2021, *Dr. Christine Große*, Mid Sweden University, Sweden, with the thesis “Towards Systemic Governance of Critical Infrastructure Protection: State and Relevance of a Swedish Case”.
- 2022, *Dr. Helena Fornstedt*, Uppsala university, Sweden, with the thesis “Innovation Resistance: Moving Beyond Dominant Framings”.

Signatures of the Board

Mats Engwall
Chairperson

Christine Ipsen
Vice Chairperson

Lucia Crevani

Hanne Finnestrand

Eskil Goldeng

Janne Huiskonen

Mathias Henningsson

Gudmundur Valur Oddson

Lovisa Annerwall

Auditors' statements

INDEPENDENT AUDITOR'S REPORT

We have audited the accompanying financial report of Scandinavian Academy of Industrial Engineering and Management (ScAIEM), which comprises the statement of financial position as of 30 June 2023, the statement of comprehensive income, statement of assets and liabilities and statement of all transactions for the period 1 July 2022 - 30 June 2023.

Our responsibility is to express an opinion on the financial report based on our audit.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion. In our opinion, the financial report of ScAIEM gives a true and fair view of the ScAIEM's financial position as of 30 June 2023 and of its financial performance and cash flows for the period 1 July 2022 - 30 June 2023.

Place: Sundsvall, Date: 2023-10-04



Leif Olsson

Fredrik Jeanson

INDEPENDENT AUDITOR'S REPORT

We have audited the accompanying financial report of Scandinavian Academy of Industrial Engineering and Management (ScAIEM), which comprises the statement of financial position as of 30 June 2023, the statement of comprehensive income, statement of assets and liabilities and statement of all transactions for the period 1 July 2022 - 30 June 2023.

Our responsibility is to express an opinion on the financial report based on our audit.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion. In our opinion, the financial report of ScAIEM gives a true and fair view of the ScAIEM's financial position as of 30 June 2023 and of its financial performance and cash flows for the period 1 July 2022 - 30 June 2023.

Place: ____ Västerås _____, Date: 2023-10-31

Leif Olsson

Fredrik Jeanson



Proposal for Budgets

Budget for 2023 07 01-2024 06 30

	(SEK)
Revenues	
Member fees (27 members á €1,000:- x EUR/SEK 11,50)	310.000
Costs	
Web-site operations and improvements	65.000
Board meetings	65.000
Branding & Marketing	0
Young Scholars of ScAIEM network	50.000
ScAIEM Annual PhD-Thesis Award	65.000
ScAIEM Conference support for PhD-students	50.000
Seed Money for Joint Nordic research	50.000
PhD Course / Summer/Winter Schools	50.000
Net costs:	395.000
Overhead IMIT	60.000
Total costs	455.000
Net result 2023/2024	-145.000

Indicative budget for 2024/2025

Revenues	
Member fees (27 members á €1,200:- x EUR/SEK 11,50)	370.000
Costs	
Web-site operations and improvements	10.000
Board meetings	65.000
Branding and marketing	0
Young Scholars of ScAIEM network	50.000
ScAIEM Annual PhD-Thesis Award	65.000
(including reimbursement for the committee)	
ScAIEM Conference support for PhD-students	50.000
Seed Money for Joint Nordic research	50.000
PhD Course / Summer/Winter Schools	50.000
Net costs:	340.000
Overhead IMIT	<u>50.000</u>
Total costs	390.000
Net result 2024/2025	-20.000

Proposed activities for 2023-24

Activities in the budget proposals

<i>Web-site operations and improvements</i>	65.000
<i>Branding and marketing</i>	0
No current projects ongoing.	
<i>Young Scholars Network of SCAIEM</i>	50.000
Purpose: to strengthen the Nordic network of young, upcoming scholars in the IEM field. The budget covers financial support of the organization of a SCAIEM Young Scholars Workshop in the Spring of 2024.	
<i>SCAIEM PhD-Thesis Award</i>	65.000
Purpose: to celebrate good Nordic research in the IEM field, display showcases IEM doctoral theses (winner and two runner-ups). The budget covers the awards (25.000 + 10.000 + 10.000) and reviewer reimbursements (3x5.000 + soc.costs).	
<i>SCAIEM Conference support for PhD-students</i>	50.000
Purpose: to strengthen the Nordic network of young, upcoming scholars in the IEM field. The budget covers financial support for travel expenses to participants of the PhD Candidate Workshop (and the main conference) with a maximum of SEK 5,000:-/PhD student.	
<i>Seed Money for Joint Nordic Research</i>	50.000
Purpose: to facilitate joint formulation of research projects between scholars from two, or more, SCAIEM institutional members of different countries.	
<i>Organizing PhD courses and/or Summer/Winter Schools</i>	50.000
Purpose: to organize PhD courses or Summer/Winter Schools.	

Membership fee for 2023-07-01 – 2024-06-30 (decided)

- Institutional membership: € 1.000:-
- Individual membership: € 50:-

Proposed membership fee for 2024-07-01 – 2025-06-30

- Institutional membership: € 1.200:-
- Individual membership: € 50:-