

Management Report for January 1, 2016 - June 30, 2017

Scandinavian Academy of Industrial Engineering and Management

Where Technology Meets Management

Gathering Management Scholars of Engineering Faculties
in Denmark, Finland, Iceland, Norway, and Sweden

Introduction and 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 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 major 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.

After five years of existence, ScAIEM starts to take shape. Starting from nothing, the early years was characterized by formative activities, such as recruitment of a board, establishing administrative procedures, establish presence on the internet, developing the cooperation with the academy's administrative host IMIT, and recruitment of institutional members.

Today, many of the most essential procedures are in place and ScAIEM is now moving on to develop and strengthen our academic subject and community. During the previous, extended fiscal year of January 1, 2016 - June 30, 2017, the ScAIEM community has continued to evolve. The ScAIEM conference in November 2016 was a great success. In relation to the conference, several new networking activities were organized, such as the first *ScAIEM Head of Department Summit* and *ScAIEM IEM Program Directors Council*. Both these initiatives have already had side effects, such as informal contacts and knowledge sharing between participants. During the conference of 2016, initiatives were also taken to organize, what now has evolved into, the *ScAIEM Young Scholars Network* for PhD students and junior faculty members.

Today (November 2017), ScAIEM is organizing all major Nordic departments within the field, representing approximately 600 scholars. ScAIEM has now its own financial resources and the operations are starting to stabilize, and there is a growing sense of community between the Nordic scholars within Industrial Engineering and Management.

Governance

Board

After the Annual Meeting, November 29, 2017 the SCAIEM board has had the following members:

- Mats Engwall, KTH Royal Institute of Technology (chairperson), elected for 2016-17
- Christine Ipsen, Technical University of Denmark, (vice chairperson), elected for 2017-18
- Lars Bengtsson, Lund University (treasurer), elected for 2016-17
- Tim Torvatn, NTNU (secretary), elected for 2017
- Eskil Goldeng, University College of Southeast Norway (external communication) elected for 2017-2018
- Paul Lillrank, Aalto University, elected for 2017-2018
- Lucia Crevani, Mälardalen University, elected for 2017-2018

Following the change of the statutes enacted in March 21, 2017, a PhD student representative was also assigned to the board:

- Spring 2017: Juri Matinheikki, PhD student at Aalto University (on leave for studies in Australia from Summer 2017)
- Fall 2017: Siri Jagstedt, PhD student at Chalmers Technical University

The board has had seven meetings during 2016 and the first six months of 2017, of which three have been Skype/telephone conferences. Minutes have been taken at all board meetings.

Administration

SCAIEM has its administrative basis at 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. IMIT was established in 1979 by the following five institutions: Swedish Institute of Management (IFL), Chalmers University of Technology, Stockholm School of Economics, KTH Royal Institute of Technology, and Lund University.

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. Since 2011, IMIT also sponsors the IMIT PhD Student Poster Award to be awarded during the annual conference.

Invoices to SCAIEM should be addressed:

Stiftelsen IMIT
Project: SCAIEM
41296 GÖTEBORG

Marketing and External Communication

During the Academic year of 2016 - 17, the *ScAIEM homepage*, (www.scaiem.org) has gone through a major update to become more modern and attractive. Initiatives have also been taken to make the website to become the natural hub for information of activities in the field of IEM. The homepage is ultimate hub for announcements of phd-courses, open academic positions, and other activities of interest for the IEM community. Furthermore, a webmaster have been contracted on part time basis to keep the webbsite accurate and updated.

In order to establish a distinctive, representative and cool ScAIEM symbol a *logotype competition* was launched, together with the Nordic IEM students during the summer of 2017.

ScAIEM own also four funcational email addresses:

- president@scaiem.org – Mats Engwall
- treasurer@scaiem.org – Lars Bengtsson
- secretary@scaiem.org – Tim Torvatn
- info@scaiem.org – Eskil Goldeng

A LinkedIn group ScAIEM was established in 2013. The group has currently more than 100 members.

A *Facebook group* was created at the 2016 conference. Please visit, like, and follow at <https://www.facebook.com/scaiem>, and develop the IEM-community by posting any discussion topic or event that you feel is relevant.

One issue of the *ScAIEM Newsletter* was published in May 2017.

In addition, ScAIEM are in control of the following web-domains: *scaiem.se*, *scaiem.dk*, *scaiem.fi*, and *scaiem.no*.

Membership

At the last Annual General Meeting, ScAIEM had 21 paying, institutional members. In November 2017, this number has grown to 23. Today, all leading IEM institutions in the Nordic region are members of ScAIEM. However, there are still some institutions that remain to be recruited.

- In Denmark, Southern University of Denmark has joined Technical University of Denmark (DTU) as institutional member. Aalborg University decided to join in November 2017.
- In Finland, ScAIEM covers all relevant institutions in the field of IEM.
- In Norway, The University of Southeast Norway and NTNU are still the only two institutional members. University of Agder, University of Stavanger and NMBU have been specifically invited, but are still pending.
- In Sweden, the number of paying members have increased from 12 to 13. During 2017, Mid University of Sweden joined as paying member. However, there are still a small number of Swedish institutions, e.g. Borås University, that are not become members.

In addition, Iceland is also new to ScAIEM as Reykjavik University has become a paying institutional member during 2017.

The ScAIEM Annual Conference 2016

The annual ScAIEM Conference of 2016 was organized by Luleå University of Technology (LTU) and had over 180 participants, by far breaking previous attendance records. The various conference seminars spanned over a wide variety of topics, from student health issues and life balance, to digitalization and Industry 4.0. Feedback from the participants show that networking among Nordic peers, by far, is the most important reason for attending.

In addition, the first *ScAIEM Head of Department Summit* gathered 12 participants from eight universities. The purpose was to create a network to learn from each other and increase collaboration across the IEM departments at the Nordic engineering universities. Their discussions highlighted a number of common challenges for the Nordic IEM departments, e.g. research funding, doctoral education, performance evaluations, and the strategic positioning in the technical universities.

During the *ScAIEM Program Directors Council* at the conference, the content of IEM educational programs was discussed, especially addressing the balance between technology and management in the educational program. Others issues discussed were if ScAIEM the roles for IEM students at the labor market and the need for industry projects during the education.

The third *ScAIEM Arctic Workshop for PhD Students*, attracted 22 contributions that were presented and discussed in six parallel sessions.

Financial statement (Year Jan 1, 2016 - June 30, 2017)

As decided by the ScAIEM annual meeting we have prolonged the fiscal year to 18 months in order to change fiscal years from July to June in the coming years. We have invoiced members for the year 2016 and then for the period 20170101-20180630. The income statement covers membership fees and costs for the period 20160101-20170630. Most of the costs belong to the development, design and operation of ScAIEMs new Webpage. Other costs have been minor.

Income statement for the period ended 30 June 2017

<i>Item</i>	<i>Information</i>	<i>SEK</i>
	Income	
1.	Institutional membership fees	271.700
2.	Other income	0
3.	<i>Total gross income</i>	271.700
	Expenses	
4.	Web page expenses	103.548
5.	Administrative costs	18.082
6.	Other expenses	17.479
7.	<i>Total expenses</i>	139.109
	Net surplus/(deficit)	+ 132.591

Balance sheet at 30 June 2017

<i>Item</i>	<i>Information</i>	<i>SEK</i>
	Assets	
8.	Cash at IMIT Account	538.113
9.	<i>Total assets</i>	538.113
	Equity	
10.	Annual Conference Guarantee Fund	100.000
11.	Surplus brought forward	123.122
12.	Net surplus of the year	132.591
	Liabilities	
13.	Pre-paid membership fees	182.400
	<i>Total Equity and Liabilities</i>	538.113

The SCAIEM Years in Summary

2009

- The first Swedish academic national conference (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 Nordic 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 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.
- The second ScAIEM PhD-course is organized by LTU.

Conferences Since 2009

Swedish INDEK-Conferences:

- 2009, November 26-27, KTH Royal Institute of Technology, Stockholm
- 2010, November 11-12, Chalmers University of Technology, Göteborg.
- 2011, November 10-11, November, 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, NTNU, Trondheim
- 2018, to be: University of Oulu

Signatures of the Board

Mats Engwall
Chairperson

Christine Ipsen
Vice Chairperson

Lars Bengtsson,

Tim Torvatn

Paul Lillrank

Lucia Crevani

Eskil Goldeng

Siri Jagstedt

Independent Auditor's Report

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 2017, the statement of comprehensive income, statement of assets and liabilities and statement of all transactions for the period 1 January 2016 - 30 June 2017.

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 2017 and of its financial performance and cash flows for the period 1 January 2016 - 30 June 2017.

Sundsvall and Eskilstuna, 2017-11-20

Leif Olsson



Angelina Sundström



Porposal for Budgets

Budget July 2017-June 2018 (SEK)

Revenues

Member fees (23 members a €1.000:-)	218.000
-------------------------------------	---------

Costs

Web-site operations and improvements	25.000
--------------------------------------	--------

Travel costs board members	30.000
----------------------------	--------

Project 1: Logotype and branding	25.000
----------------------------------	--------

Project 2: SCAIEM Young Scholars' Network	50.000
---	--------

Project 3: Mapping Nordic IEM education	50.000
---	--------

Project 4: Mapping Nordic PhD courses in IEM	25.000
--	--------

Overhead IMIT (14 %)	<u>28.700</u>
----------------------	---------------

Total costs	233.700
--------------------	----------------

Net result 2017/2018	-15.700
-----------------------------	----------------

Preliminary Budget July 2018-June 2019 (SEK)

Revenues

Member fees (23 members a €1.000:-)	218.000
-------------------------------------	---------

Costs

Web-site operations and improvements	25.000
--------------------------------------	--------

Travel costs board members	30.000
----------------------------	--------

ScAIEM Young Scholars' Network	50.000
--------------------------------	--------

Project 5: ScAIEM Arctic Workshop	125.000
-----------------------------------	---------

Project 6: ScAIEM Thesis Award	10.000
--------------------------------	--------

Overhead IMIT (14 %)	<u>33.600</u>
----------------------	---------------

Total costs	273.600
--------------------	----------------

Net result 2017/2018	-55.600
-----------------------------	----------------

Projects recorded in the budget proposals

To be continued:

<i>Project 1 Logotype and branding</i>	<i>25.000</i>
--	---------------

The logo-competition to be awarded at ScAIEM 2017.

Based on the competition, engagement of a designer to finalize a logo as well as a graphic profile, letter templates, etc.

<i>Project 2: Young scholars' network</i>	<i>50.000</i>
---	---------------

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 2018 (primarily travel expenses, lunch, coffee, etc.).

New projects 2017-18

Project 3: Mapping Nordic IEM Educations 50.000

Purpose: IEM is one of the targets and most popular fields in engineering education. However, what is actually taught in the IEM programs on BSc and MSc levels are still unclear. This project is about mapping the various BSc and MSc programs of IEM in the Nordic countries with respect to aims, content, size, etc.
The budget covers expenses and/or reimbursement for a task force executing the exercise.

Project 4: Mapping Nordic PhD courses on IEM 25.000

Purpose: to be able to strengthen the Scandinavian PhD education, the first step is to identify existing PhD courses in the field of IEM.
The budget covers expenses and/or reimbursement for a task force executing the exercise.

New projects 2018-19

Project 5: SCAIEM Arctic Workshop: 125.000

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 SCAIEM Arctic Workshop (and the main conference) with a maximum of SEK 5.000:-/PhD student.

Project 6: SCAIEM Thesis Award 10.000

Purpose: to celebrate good Nordic research in the IEM field, display showcases IEM doctoral theses of high relevance and rigor, and promote new research agendas.
The budget covers the award. Statutes and procedures for the award are to be specified during the Spring 2018.

Other projects (not included in current budgets)

Mapping the Nordic Academic Competences in the Field of IEM

The management subjects of IEM are taught by various kinds of departments at different universities. In addition, the industrial management and management engineering departments (or equals) are organized in different ways and differ in emphasis with respect to management competences and industrial contexts. This project includes a mapping of all relevant departments (or equal) in the field of IEM in the Nordic countries.

Fundraising

Map possibilities for funding of future SCAIEM initiatives. If possible, approach relevant potential financiers and develop applications.

Facilitate joint research project

Investigate how to support a stronger academic network by facilitating joint research projects between scholars at different universities.

IEM Enacted as a Legitimate Academic Subject

IEM is often hidden in the national statistics and not recognized as a legitimate academic field in its own right, by financing bodies as well as university top management. This creates several kinds of problems for academics in the field. This project aims to get IEM recognized as a field in national statistics of the all the Nordic countries, as well as in the OECD-statistics.

Membership fee for 2017-07-01 – 2018-06-30, decided November 29, 2016

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