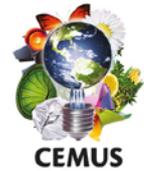




UPPSALA
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CSD Uppsala
UPPSALA CENTRE FOR
SUSTAINABLE DEVELOPMENT

CEMUS/CSD

Annual Report

2016

Research, Education and Outreach

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INTRODUCTION

2016 was a tumultuous year that challenged how we perceive the world, with Great Britain voting to leave the EU, and the US seeing a candidate with no previous political experience winning the presidential election. In the background to these much covered news stories, the Syrian war continued and an increasing amount of people around the world are forced to leave their homes. Records in temperature and moisture globally, and minimum lows for the Arctic and Antarctic ice-cover, showed the world that human-induced climate change is not slowing down.

The need for universities and places like CEMUS in the world is even greater now than it was at the start of 2016 when we wrote our last report. It befits us to be the critical voices that ask the difficult questions and challenge demands to make universities into political tools for a certain agenda. We must question post-factual, alternative facts claims, but still not remain on an intellectual pedestal, where the educated are pitted against the non-educated masses.

At CEMUS/CSD we continued our work for a better world through 19 courses, engaging 600 students, over 20 course coordinators and 200 guest lecturers, some 25 research seminars and workshops, 49 public events, 2 sustainability festivals, 1 major international conference, 1 major international workshop with 6 participating universities, many other activities connecting research, education and outreach.¹

Some highlights during the year were:

- The passionate, knowledgeable and hard work by students, course coordinators, course work groups, guest lectures, staff, researchers, senior fellows and external partners.
- The ClimateExistence conference in collaboration with The Sigtuna Foundation that brought together people from all corners of the world and all kinds of backgrounds for intriguing discussions and new perspectives.
- The Matariki Global Citizenship Workshop in Uppsala that welcomed staff and students from all partner universities for an intense and critical 4 day-meeting.
- The arrival and in-office presence of climate change leadership visiting professor Kevin Anderson from Manchester University, showing us that climate change matters even more than we thought.²
- The engaged group of students travelling to the UN climate negotiations in Morocco as representatives of Uppsala University, many choosing to travel by land to decrease their climate impact.
- The climate change leadership massive open online course at FutureLearn, part of UU's test-run, proved to be a rich learning experience where different ideas could clash and still deliver a great course.

During 2017 CEMUS celebrates 25 years of student-led education, 20 years as a joint Uppsala University and SLU centre, and 15 years of transdisciplinary research and research education. More on the CEMUS +25 activities can be found at www.cemus.uu.se/cemus25

¹ CEMUS activities were covered by a range of media in 2016, e.g. in the magazine Biz&Art, and UU's magazine "Nya Horisonter". See e.g. https://issuu.com/nyahorisonter/docs/nh_nr_1_2016_webb/8

² See e.g. <http://www.svt.se/nyheter/lokalt/uppsala/flygvagrande-klimatprofil-ny-professor-i-uppsala>. For further press coverage see: <http://www.csduppsala.se/ccleadership/>

RESEARCH

FORSKNING OCH FORSKARUTBILDNING

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Our aim is to promote research and research education that critically explores, investigates and analyses relations within and between social, cultural, economic and ecological systems, in terms of access to and use of natural resources, power structures and social and environmental conditions, highlighting also the interdependence of the global north and the global south. This involves generating transdisciplinary insights into the obstacles and possibilities for increasing global and intergenerational equity while preserving our ecological resource base.

Zennström Visiting Professorship in Climate Change Leadership

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With a 10-year series of visiting professorships (2015-2025), Zennström Philanthropies and Uppsala University are enabling the development of a research environment that will directly address some of the most challenging questions that climate change poses to humanity, develop novel solutions, and enable rapid and transformative change at the nexus of science, policy and innovation. The professors will in distinct but mutually reinforcing ways, inspire new research and education and catalyse the much needed action toward a more sustainable future. CEMUS/CSD serves as an enabling platform to fully draw upon the breadth of Uppsala University, the Swedish University of Agricultural Sciences, as well as other relevant partners and stakeholders at the local, national and international levels.

Kevin Anderson, Professor of Energy and Climate Change (University of Manchester, UK) is Uppsala University's second holder of the Zennström Visiting Professorship in Climate Change Leadership. He took up the position in August 2016 and is carrying on the work initiated by the first Zennström professor, Doreen Stabinsky (College of the Atlantic, USA): to establish a world-leading node in the area of climate change leadership in Uppsala - that will be unique, both in Sweden and internationally.

During the first half of 2016, Doreen Stabinsky rounded off her tenure as Zennström professor by securing the continued development of some of her key contributions to Uppsala University, not least the continued efforts to send delegations of students and researchers to UN climate conferences in the years to come. A report to Zennström Philanthropies (see separate annual report) outlines in more detail the activities during Doreen's tenure as Zennström professor in climate change leadership.

2016 was the second year of this 10-year initiative, and saw the first transition between two Zennström professors. To ensure a smooth transition, a 3-week long hand-over period was organized in August and September, with both professors present in Uppsala. A number of activities were organized, including a full day event on the theme of climate change leadership, on the occasion of a visit by Niclas Zennström to Uppsala University.

Professor Anderson's original expression of interest has informed the activities undertaken since his arrival to Sweden and Uppsala University. His arrival has attracted a significant interest from media, as well as, a range of actors from civil society, academia, private and public sector - from all over Sweden (around 80 invitations and requests from August 2016 to date). Fortunately, the enabling environment surrounding the professorship was strengthened during 2016 and now has an increased capacity, with two people now directly involved in the coordination and development of the node.

During the fall, Kevin published articles in the journal Science and New Scientist, leading to further articles and discussions in both international and Swedish press. A research workshop series was also initiated, with the first workshop focusing on rapid societal transitions, gathering approximately 20 researchers and practitioners from Sweden and the U.K, for three days. Two new courses on the theme of the professorship were also run for the first time during 2016: a Massive Open Online Course in Climate Change Leadership and a full-semester course Climate Change Leadership in Practice. A number of public events and more targeted outreach events were also organized.

In the full report a more comprehensive summary of activities and outcomes can be found, that were made possible during 2016 as a result of Uppsala University and Zennström Philanthropies supporting the development of a node around climate change leadership, coordinated at CEMUS/CSD Uppsala. During the year, a large number of researchers, students, citizens and local actors in Uppsala as well as on the national and international level, have shown a significant interest to further engage in the development of this initiative in the years to come.

CEMUS Research School, CEFO

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<http://www.csduppsala.uu.se/CEFO>*

CEMUS Research School, CEFO, is a transdisciplinary research forum for PhD students and researchers that focuses on environmental and development studies. CEFO was created in 2002.

CEFO is a transdisciplinary research school/forum open to researchers and PhD-students at Uppsala University, SLU and other universities in Sweden. CEFO activities focus on environment, development and sustainability studies. We collaborate with other universities and departments to enrich research education through our transdisciplinary Sustainability Seminars, PhD courses, workshops, lectures and field trips.

CEFO was the first PhD school within Uppsala University to initiate regular interdisciplinary seminars, workshops and PhD courses associating PhD candidates from both Uppsala University and SLU interested in sustainability issues. Since then CEFO has expanded its activities to include also master students and senior researches, increasingly including transdisciplinary research through external financing. So far 32 PhD-students associated with CEFO have successfully finished their doctoral studies; most of them work with sustainability related issues both within the academia and outside, nationally and internationally. These 32 PhD students have belonged to nineteen different departments, and our 18 currently associated PhD students belong to ten different departments.

Several master students have been successful in obtaining PhD positions after being active in CEFO. CEFO experiences have been key in enriching the CVs of its associated PhDs as they have been actively engaging in shaping CEFOs interdisciplinary activities according to their academic needs and burning social and environmental issues. During its existence, CEFO has held more than 240 interdisciplinary sustainability seminars and 27 successful interdisciplinary PhD courses, most of which have been organized in collaboration with a variety of departments at Uppsala University and SLU, in which our PhD students have formal positions. Fourteen years later, CEFO continues to be quite unique as an interdisciplinary sustainability platform in Uppsala, despite diminishing economic means.

Sustainability Seminar

During 2016, CEFO organized 17 activities including seminars, workshops public lectures, which included presentations from PhD students, master students, senior researchers and professors, both from Sweden and abroad in a series of themes related to sustainable development. Regular activities are

organized during the year under CEFO. Seminar schedule, research presentations and workshops are presented at <http://www.csduppsala.se/research/>

Research networks, guests and activities

Workshops & conferences (and in collaboration with other departments)

- 2016 (April 18-20): Matariki Global Citizenship Workshop, hosted by CEMUS with participation from 6 universities in the Matariki Network. Uppsala.
- 2016 (May 26-27): Scale, Security & Sustainability – challenges for agriculture in the 21st century. Speakers: PhD Gloria Rotolo (INTA-Instituto Nacional de Tecnología Agropecuaria, Argentina); PhD Paulina Rytönen (Södertörn Högskola).
- 2016 (August 25-26) JUSTMAR SSF Workshop with international partners from Vietnam, South Africa and Chile, Stockholm.
- 2016 (Aug 31): Climate Change Leadership – A Transitional Workshop. With contributions from the incoming and outgoing Zennström professor, the vice chair of IPCC and the advisory group for the Zennström visiting professorship. Uppsala University.
- 2016 (Sept.): Workshop Co-production of knowledge or Research with communities with professor Keri Facer, Bristol University. Uppsala University.
- 2016 (Nov. 4): Workshop on Fisheries as cultural heritage, Entrepreneurship, value creation and rural development by and Transformation of Small-scale Fisheries. CEFO in collaboration with Södertörn University and a Chilean Fisheries delegation, fisheries authorities and Universidad Santo Tomas from Los Lagos Region. Presenters: Madeleine Bonow, Paulina Rytönen and Gloria Gallardo.
- 2016 (Nov 22-24): Climate Change Leadership Workshop: Accelerating the Transition to a Decarbonized Society. Speakers: Andrew Simms (UK), Anders Wijkman, Kevin Anderson and more. Organized in collaboration with The Sigtuna Foundation, in Sigtuna.

International interdisciplinary and transdisciplinary collaborations

Chile-Uppsala: Gloria Gallardo, was part of the Steering Committee for the Academic collaboration between Universidad de Chile and Universidad Católica (Chile) and Uppsala University and Lund University (Sweden). Within this consortium, Gloria is a scientific coordinator on sustainability issues on behalf of the International Office Uppsala University on a 10% during 2017-2019. In addition, Gloria Gallardo visited Universidad Santo Tomas in January 2017 which expressed strong interest in formalizing collaboration with CSD/CEMUS and Uppsala. Gloria also did fieldwork research in two villages in southern Chile during Dec. 2016 after the kick-off of the collaboration between Chile and Swedish Universities.

Mozambique-Uppsala: Anneli Ekblom (co-PI) was awarded SIDA funding for “Biocultural Heritage”, a collaboration between Eduardo Mondlane University and Uppsala University (hosted by department of Archaeology and Ancient History). The collaboration will result in 5 PhD-students from Mozambique that will be affiliated to CEFO.

2016 also saw the launch of a new program for Global Citizenship within the Matariki Network of Universities (see section on Joint University Projects below). Isak Stoddard travelled to New Zealand (Otago) in the beginning of the year, which was followed by an international workshop in Uppsala with researchers from 6 of the 7 Matariki universities. Anneli Ekblom was also appointed as the academic liaison for UU in this new program. Malin Östman also travelled to Ghent for the U4 network meeting and both Jakob Grandin and Isak Stoddard travelled to different universities in the U.K to give keynote presentations and explore potential for collaboration. Furthermore, some 20 international researchers visited CEMUS during 2016 as guest researchers (e.g. Andrew Simms, Gloria Rotolo, Zoe Robinson, Keri Facer, Bob Massie, Jan van Boeckel, ActSHEN researchers, Matariki network researchers).

Research network

We have during 2016 started work on a formalized research network, mainly consisting of researchers that have been a part of CEFO, course work groups, guest lecturers and previous contacts. The researchers would formally be affiliated with CSD/CEMUS, which would strengthen the possibilities for future collaboration. A number of researchers have been contacted and are all positive about contribution to a research network and be formally affiliated. The network would continue to be developed as a CEMUS network from July 1 2017.

Ongoing research network grant

2016-2018: Swedish Research Council/Swedish Research Links, (VR/SRL) (1,1 million SEK), called *Co-creation of a sustainable fisheries future through TURFs. A comparison between Vietnam, Chile and South Africa*. Project leader: Gloria Gallardo: This research considers an international, interdisciplinary collaborative research project that also includes Dr. F. Saunders (co-convenor in Sweden), Södertörn University; Dr. T. Van Tuyen (co-convenor in Vietnam), Hue University, Vietnam; Dr. S. Raemaekers; Cape Town University, South Africa and Dr. Robinson Torres, Universidad de Concepción, Chile.

Research applications

- Research project on Sustainable Consumption has been developed with departments at UU, SLU, Human Ecology, Lund University, Stockholm School of Economics and Södertörn University. Deadline 7th of March.
- Exploring the Rural-Urban Global Metabolic Rift. Rural Livelihoods and Environmental conflicts in Sweden, Chile and Kenya (preliminary title) G. Gallardo, T. Sokolova, A., Kubai and F. Saunders). Being prepared for Formas CSD, department of Theology, Uppsala University and Södertörn Högskola.
- Research applications has also been drafted with CAPIA, Universidad Santo Tomás, Puerto Montt (Chile) as part of the institutional collaboration (see above).
- Participation in Horizon 2020 “Sustainable food security-resilient and resource-efficient value chains”.
- Part of two node-applications 2017-01-20, collaboration within the domain of the Humanities and social sciences, UU: ”Conspicuous Consumption” and “Exploring Social Spatialities”.

Conference presentations

- Anderson, L. & Ishihara, S. 2016. 'Student-Led Education, Spaces for Dialogue, and Global Citizenship in Practice.' Ustinov Annual Conference 2016: Establishing the Global Citizen, Durham University, 2 July.
- Gallardo, G., and Saunders, F. 2016. Small-scale Fisheries. Development Research Conference, VR/SIDA and Human Geography Department, Stockholm University, 22-24 August.
- Gallardo, G., and Saunders, F. 2016. A Critical View of Socio-Environmental Transformation - Small-scale Fisheries'. 7th International Conference on Localized Agri-food Systems Challenges for the new rurality in a changing world. Södertörn University and ERG SYAL, Stockholm the 8-10 of May 2016.
- Grandin, J. 2016. Keynote Speech at the Educating Global Citizens Research Symposium, University of Southampton, U.K. April 15.
- Stoddard, I. 2016. 'Transcending Boundaries in a world with limits: The role of the university and higher education in addressing global challenges'. Presentation at CSAFE, University of Otago, New Zealand, 5 February.
- Stoddard, I. 2016. 'Education for Sustainability: A case Study of student-initiated and student-led learning in Higher Education'. Keynote Speech at the conference Perspective on Experiential Learning, University of Cumbria, UK, 11 March.
- Stoddard I. et al. 2016. 'Sustainable Development'. Presentation at UU Innovation, Uppsala, 14 April.

- Stoddard I. 2016. 'An Uppsala Intervention on Climate Change'. Presentation at the Tyndall Centre's Assembly 2016 on the theme Time: Climate Change - Past, Present and Future. Via videolink. Manchester University, U.K. 14 September.
- Östman, M. 2016 Presentation Dalarna University.
- See Appendix 1 for further conference presentations by the Zennström Professorship

Publications

- Anderson, K. & Peters, G (2016). "The trouble with negative emissions". Science. Vol. 354. Issue 6309, pp. 182-183.
- Anderson, K & Peters, G (2016). "A huge problem lurks at the heart of the Paris Agreement". New Scientist. Issue 3098.
- Ekblom, A., Notelid, M., Witter R. In press. Negotiating identity and heritage through authorised vernacular history, Limpopo National Park. Journal of Social Archaeology.
- Ekblom, A., Sinclair, P., Mtwetwa, E. In press. Great Zimbabwe, the landscape and its neighbours. In: Pikiaryi, I. (ed). Great Zimbabwe landscapes. Palgrave.
- Ekblom, A., Lane, P., Radimilahy, C., Rakotoarisoa, J.-A., Sinclair, P., Virah-Samwy, M. (2017) Migrations and interactions between Madagascar and the eastern Africa, 500 BC – 1000 AD: the archeological perspective. In: Campbell, G. (ed) Early Exchange between Africa and the Wider Indian Ocean World, 191-230. Palgrave.
- Shepard, K., Brown, K. & Connelly, S. et. al. (2016) 'Empowering Students in Higher Education to Teach and Learn'. New Zealand Journal of Educational Studies.

Forthcoming publications

- Gallardo F. G.L. and F. Saunders (forthcoming 2017 at Carlson förlag). Epilogue to the bok "Ekonomi för Antropocen – Skiftet till en hållbar värld" (Red. Robert Österbergh och Mikael Malmaeus).
- Gallardo and Sokolova (Ed.) Co-production of sustainability research with communities (provisional title); a CEFO anthology containing nine essays.
- Ishihara, S. & Marcos Valls, A. (forthcoming), Back from the Future We Want – Backcasting as a pedagogical practice towards sustainable futures, in "Envisioning Futures for Environmental and Sustainability Education" edited by Joseph Weakland, Peter Blaze Corcoran, and Arjen Wals.

Articles submitted for publication 2016

- Gallardo F. G. L., F. Saunders, T. Sokolova, K. Börebäck, F. van Laerhoven, S. Kokko and M. Tuvedal: (Submitted to the Journal of Political Ecology 2016). 'We adapt ... but is it good or bad? Locating the political ecology and social-ecological systems debate in reindeer herding in the Swedish Sub-Arctic.'
- C. Alarcón F., E. Friman, G. L. Gallardo F., D. Bergquist, F. Hajdu, K. Jacobsson, T. Rydberg, L. Salomonsson and C. Lagerberg-Fogelberg (submitted to the International Journal of Agricultural Sustainability 2016) 'A political ecology and emergy analysis of agrofuels in Brazil'.
- Ekblom, A., Gillson, L., Notelid, M. (Submitted) Waterflow, landscape dynamics and water-management of the lower Limpopo. Wires Water.

For a complete list of publications from CEMUS/CSD, visit: <http://www.csduppsala.se/publications>

EDUCATION

UTBILDNING PÅ GRUNDLÄGGANDE OCH AVANCERAD NIVÅ

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The education at CEMUS offers a wide range of courses within the environment, development and sustainability field. Our transdisciplinary courses aim to complement other courses at Uppsala University and the Swedish University of Agricultural Sciences. They are built on a close collaboration between students, course coordinators, teachers, researchers, university administrators and societal actors.

Students and Courses

Courses given during 2016

During 2016 CEMUS gave the following courses (Swedish titles indicate course given in Swedish, English title course given in English; the number of registered students in brackets):

Spring [282 students]

- Hållbar utveckling B (HUB) 30 hp/credits [29 students]
- Hållbar utveckling – värderingar, världsbilder och visioner (VVV) 15 hp/credits [5 students³]
- Teknik, makt och mänsklighetens framtid (TMMF) 7.5 hp/credits [11 students⁴]
- Livsfilosofi och det moderna samhället (LF) 7.5 hp/credits [11 students⁵]
- Actors and Strategies for Change – Towards Global Sustainable (ASC) 7.5 hp/credits [52 students]
- Sustainable Design – Ecology, Culture and Human Built Worlds (SDESIGN) 7.5 hp/credits [53 students]
- Climate Change Leadership – Power, Politics and Culture (CCL) 15 hp/credits [38 students]
- Sustainable Development - Project Management and Communication (SDPMC) 15 hp/credits [19 students]
- Sustainable Development - Worldviews and Discourses - a Seminar Series (MSD Seminar Spring) 5 hp/credits (within the Master Programme in Sustainable Development) [46 students]
- Technology, Power and the Future of Humanity (TPFH) 7.5 hp/credits, distance [18 students]

Autumn [318 students]

- Hållbar utveckling A (HUA) 30 hp/credits [32 students]
- Global miljöhistoria (GMH) 7.5 hp/credits [7 students⁶]
- Klimatet, energin och det moderna samhället (K&E) 7.5 hp/credits [7 students⁷]
- Global Challenges & Sustainable Futures (GCSF) 7.5 hp/credits [46 students]
- Critical Perspectives on Sustainable Development in Sweden (SDSWE) 7.5 hp/credits [31 students]
- The Global Economy – Environment, Development and Globalization (GEC) 15 hp/credits [48 students]
- Sustainable Development - Project Management and Communication (SDPMC) 15 hp, credits [28 students]
- Climate Change Leadership in Practice, 30 hp/credits [18 students]
- Introduction to Interdisciplinary Science (MSD Intro) 5 hp/credits (within the Master Programme in Sustainable Development) [52 students]
- Sustainable Development - Worldviews and Visions - a seminar series (MSD Seminar Autumn) 5 hp/credits (within the Master Programme in Sustainable Development) [49 students]

³ Combined classes (samläsning) for the first 7.5 credits part of the courses with HUB

⁴ Combined classes (samläsning) with HUB

⁵ Combined classes (samläsning) with HUB

⁶ Combined classes (samläsning) with HUA

⁷ Combined classes (samläsning) with HUA

CEMUS also collaborated with the Master Programme in Global Environmental History at the Department of Archaeology and Ancient History, on the course Current Themes and Debates in Global Environmental History, 7.5 hp/credits, in English, spring to autumn.

Courses cancelled during 2016

The following courses were cancelled during the year:

- Experts-in-Teams: Interdisciplinary Projects for Sustainable Development, in English (autumn) 5 hp/credits

The course was cancelled because too few students applied.

Changes courses 2017-2018

The following courses will not be given 2017-2018:

- Technology, Power and the Future of Humanity (TPFH) 7.5 hp/credits, distance

Courses cancelled during 2016 (see above) will not be given autumn 2017 – spring 2018. No new courses planned for autumn 2017 – spring 2018.

Yearly student equivalents – Helårsstudenter, HST 2016

CEMUS assignment during 2016 was divided between two universities, three faculties and six different categories. The Faculty of Science and Technology, Teknat, divided the assignment of 95 HST for CEMUS /CSD for 2016 into the following categories: free-standing (fristående) 44 HST; Teknat programme students 17 HST; exchange students 34 HST. The other categories include for CEMUS (summarized after each semester or full year): Humsam programme students (Samvetfak. and Histfilfak.) 6,6 HST; fee-paying students 5,1 HST; CIEE fee-paying 0,6 HST.

The result (utfall) for 2016 looks as follows (with 2015 in brackets):

	Free-standing Fristående studenter	Teknat program students	Exchange students	Humsam program students (Sam & Histfil)	SLU program students	SLU exchange students	Fee- paying students	CIEE fee- paying students	Total
Uppdrag Teknat CSD	44 [52]	17 [18]	34 [25]						95 [95]
Result HST ⁸ CEMUS	60,0 [62,3]	15,2 [13,8]	31,8 [27,0]	6,8 [6,6]	4,3	0,8	3,5 [5,1]	0,5 [0,6]	119,6 [115,4]
Result HSTK ⁹ CEMUS									000 [118,4]
Result HPR ¹⁰ CEMUS									000 [93,8]
Result HPRK ¹¹ CEMUS									000 [116,7]
Number of students CEMUS									600 [617]

Student Impressions – Studenternas omdöme av kurserna

Overall, CEMUS' students have had high impressions of the courses and the learning outcomes have been fulfilled to a high degree. For the spring semester courses, the average overall impression of the

⁸ HST, helårsstudenter läsår - Yearly student equivalents over full semesters

⁹ HSTK, helårsstudenter kalenderår 2016 - Yearly student equivalents 2016

¹⁰ HPR, helårsprestationer läsår (godkända resultat) - Yearly performance equivalents over full semesters

¹¹ HPRK, helårsprestationer kalenderår 2016 - Yearly performance equivalents 2016

courses (where 1=bad and 5=excellent) was 4.1 out of five (4.2 for spring 2015) and for the autumn semester 3.8 (4.1 for spring 2015). The overall impressions of individual courses ranged from 3.6 to 4.6 in the spring semester and 2.6 to 4.2 in the autumn semester.

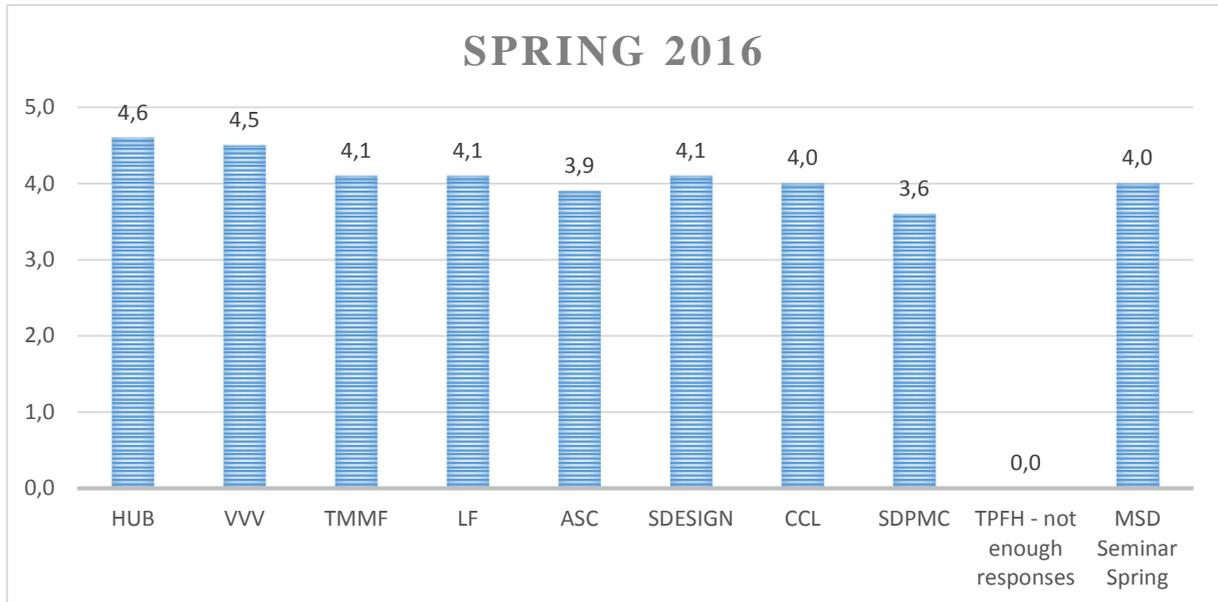


Figure 1: Overall impression (helhetsintryck) of the spring semester courses (5=excellent 1=bad)

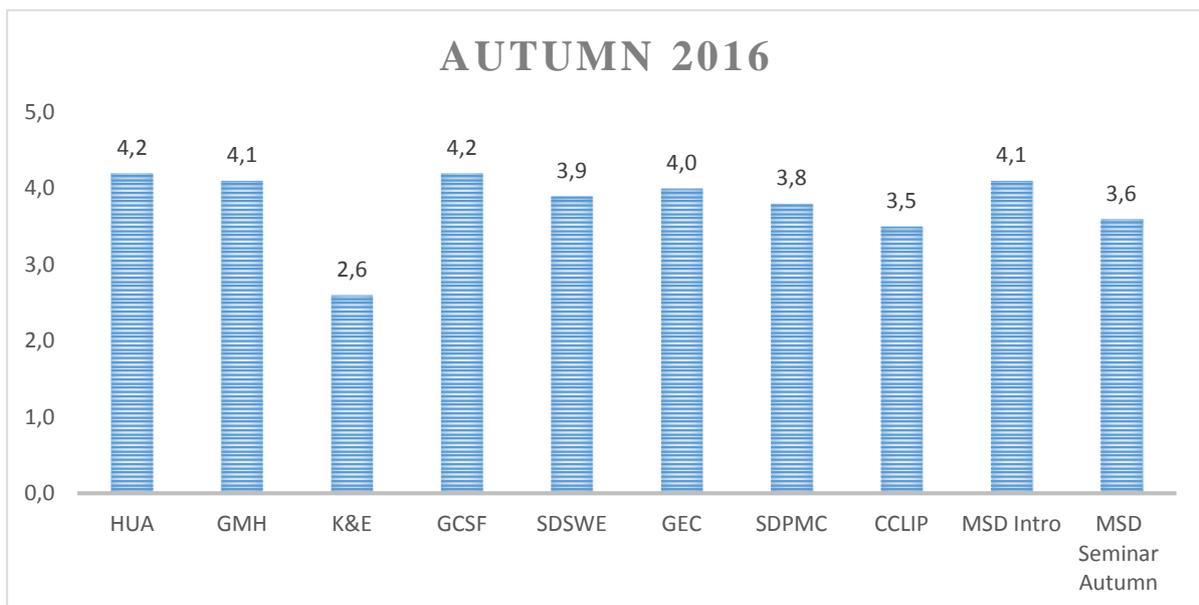


Figure 2: Overall impression (helhetsintryck) of the autumn semester courses (5=excellent 1=bad)

A majority of the students also consider that the course they were enrolled in provided them with knowledge and skills that they think will be useful to their future studies or work. Furthermore, almost all of the students that have completed course evaluations would recommend the course to a friend.

The trend from previous years where the average student impression of the courses had stabilized at a high level, is somewhat changed. During the last five years (2011-2015), the average student impression of the courses has consistently been at 4.0 (out of 5.0) or higher, which also is true for the spring semester 2016, but not the autumn semester, although an average of 3.8 has to be considered good enough. The students' average appreciation of the fulfilment of the learning outcomes has been at 3.9 (out of 5.0) or

higher during the same time period. This positions CEMUS at a consistently high level in terms of how the students perceive the quality of the education.

Pedagogical Development – Pedagogisk utveckling

Uppsala University

Participation in Educational Conferences

CEMUS has participated in yearly conferences organized by the Office of Quality Enhancement and Academic Teaching and Learning as well as the Disciplinary Domain of Science and Technology, with several posters and projects. During 2016 several articles and texts exploring the CEMUS-model have been published in various formats and forums.

PUMA, UU – Student-reflection on learning before embarking on an interdisciplinary master programme

Inspired by the TUK 2016 conference (<http://www.teknat.uu.se/om-oss-kontakt/pedagogisk-utveckling/tur/tuk/>), this project aims at providing an opportunity for students that are starting an interdisciplinary Master Program in Sustainable Development (MSD) to take time to reflect through the use of a reading, assignment and workshop(s) on their own background and education, ask what motivates them and what do they want to achieve from the two year MSD. The project will look at Jack Mezirow's Transformative learning theory with the projects research questions asking: if there is time for reflection, does this enhance later discussions in and outside classrooms? Does this time for reflection allow students to make the most of the educational program? The project started 2016 and was completed during 2016.

TUR, Teknat – Teknisk-naturvetenskapliga fakultetens universitetspedagogiska råd

Malin Östman works in the capacity of a member of TUR - teknisk-naturvetenskapliga fakultetens universitetspedagogiska råd. As of January 2016, she is working 15% with TUR activities on a faculty-wide level.

TUFF, Teknat – “Eksperter i Team”

CEMUS has applied for, and been rewarded TUFF funding (Teknisk-naturvetenskapliga universitetspedagogiska förnyelsefonden) for working with EiT-pedagogics (Originally a Norwegian concept from NTNU – Trondheim). A report will be finalized during 2017.

Internationalization - Internationalisering

CEMUS is continuously taking part in both the local, regional and global discussion on education, pedagogics and sustainable development. CEMUS is part of a vast network of students, researchers and alumni and many guests visit CEMUS each year. In 2016 we had many guests and experienced an increase in the interest in our student driven education. The guests visiting us, as well as the visits we make to others, are part of enriching the educational knowledge and culture at CEMUS and part of a dialogue for positive societal change and a qualitative education. During 2016 CEMUS education was represented in academic as well as other literature and articles. Presentations and keynote lectures were given at several international conferences and academic institutions during the year (Manchester University, UK; University of Cumbria, UK; University of Southampton, UK; Durham University, UK; University of Otago, NZ).

Action for Sustainability in Higher Education in the Nordic Countries

To promote and develop education for sustainability in higher education, participants from six institutions across the Nordic countries participated in the project ActSHEN – Action for Sustainability in Higher Education in the Nordic region. The project was funded by NordPlus. The aim of the

ActSHEN project was to develop a model and guidelines that strengthen student-driven pedagogy when working with sustainability in higher education. 2016 was the final year of the project which was rounded off with a 3-day dissemination workshop in December, hosted by CEMUS in Uppsala.

An online book about the project has been created and is available here: <http://blogs.helsinki.fi/action-for-sustainability/>

OUTREACH SAMVERKAN

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CEMUS Forum

CEMUS Forum is an important part of the CEMUS model. The goal of CEMUS Forum is to expand and develop the CEMUS educational model and to bridge the gap – between theoretical and practical, the young and the old, and the academic and non-academic worlds. CEMUS forum is a Meeting Place – for people interested in transdisciplinary education and sustainable solutions – to transcend boundaries. CEMUS Forum actively organizes Public Events in collaboration with various actors in the local and wider community. We host many lectures, workshops, discussions and film showings throughout the year, and organize the Uppsala Sustainability Festival at the end of each semester. The forum acts as a platform for students who have ideas and visions that they want to realize and as an interface between the university and other community actors and organizations. Together with the student organization at CEMUS, CEMUS Roots, about 10 projects get support through the CEMUS Forum annually. CEMUS Forum also has some more formalized collaborations with other actors. These include Folkuniversitetet, Uppsala Municipality, The Sigtuna Foundation and Riksteatern. CEMUS will also continue to act as a platform for RCE “Regional Centre of Expertise on Education for Sustainable Development.” This platform works with transformative learning initiatives in Uppsala, see below.

Public lectures, seminars and events

During 2016 CEMUS Forum organized and co-hosted 49 open events and 2 sustainability festivals. See the website www.CEMUS.uu.se for events 2017.

Sustainability Festivals

The 26th of May and the 15th of December 2016, CEMUS organized the Sustainability Festival in collaboration with students and external actors in and around Uppsala. For the winter-version of the festival in December, efforts were made to increase collaboration with students and external actors and broaden the festival to be a platform for sustainability oriented actors and activities. The name for the festival was changed to Uppsala Sustainability Festival (Uppsala hållbarhetsfestival) for the winter, and the theme Green Winter was used. These efforts resulted in a broader range of activities and participants, with a total of 20 workshops held and 21 organizations contributing to the Fair, as well as more media coverage (<http://sverigesradio.se/sida/artikel.aspx?programid=114&artikel=6589182>). Read more about the last festival here: www.sustainabilityfestival.se

ClimateExistence conference in collaboration with The Sigtuna Foundation

In April 2016 CEMUS and The Sigtuna Foundation hosted the third ClimateExistence conference together. The conference was visited by had about close to a 100 participants and the guests included well known speakers included well known guests and contributors within the fields of art, science, politics and civil society. These included amongst Among others, these included Mminister of Cclimate and aid Foreign Development Cooperation, Isabella Lövin, and Aarch Bbishop of The Swedish Church,

Antjé Jackelén, whom both also provided keynote addresses and participated in panels. Other speakers included artist David Buckland and Professor Andrea Nightingale, SLU. The theme for this conference has become more and more relevant throughout the years (since 2008) and we look forward to continuing this tradition and to the next conference in 2018. More on the conference can be found at www.climateexistence.se

As part of the cooperation with The Sigtuna Foundation CEMUS also co-hosted a full-day seminar on October 12th titled Finding our way in the dark – Pathways in the shadow of Climate Change. This seminar included guest such as Hanna Wetterstrand, Kevin Anderson, Helena Granström, Jonas Green and Ulf Danielsson. The theme focused on how to act and react to the ongoing environmental crisis.

Framtidsakademin in collaboration with Folkuniversitetet

During 2016 CEMUS continued its already well established project Framtidsakademin, which is a public lecture series run in collaboration with Folkuniversitetet in Uppsala and the Uppsala City Library. A total of 10 lectures were planned for during the year (5 per semester). The theme of the spring semester was "Land och stad" (Rurality and Urbanity) and for the autumn semester "Migration". For the full program, see <http://www.folkuniversitetet.se/Har-finns-vi/Uppsala/Forelasningar/Framtidsakademin/>

Film & Framtid in collaboration with Fyrisbiografen and Folkuniversitet

A spin-off project from Framtidsakademin where CEMUS in collaboration with Folkuniversitetet i Uppsala and Fyrisbiografen arranged three film-screenings under the common theme of "Migration". The screenings were followed by a short talk/lecture by invited guests from academia and civil society as well as discussion with the audience. Around 30-40 participants came to each session. See full program at <http://www.folkuniversitetet.se/Har-finns-vi/Uppsala/Forelasningar/film--framtid/>

Project cafés and student interactions

Together with the student group CEMUS Roots, CEMUS Forum has arranged several Project Cafés during the year. At these Cafés, students and local actors in Uppsala can present different ongoing projects for sustainable development that students can get involved in. Students can also start their own project at these cafés and get support from CEMUS Forum. Examples of student projects and initiatives include gardening plots (Flogsta Food), education for sustainable development in local schools (Ekolibria), and students attending the UN climate negotiations as representatives of UU (UU Climate Change Platform). This is one way in which we act as a platform for students.

A meeting place and study environment

CEMUS Lounge/Lab/Library, and the newly added project room at CEMUS work as physical work and maker spaces for students, both from CEMUS and other departments. These spaces are important also for the Master's program in Sustainable Development as well as for other students in the building. The Lounge/Lab/Library and project room are also available for other students that need meeting spaces for projects with an ambition to create a better and more sustainable world. During 2016 one such example was the EAT Student Initiative, where students from other departments sought out CEMUS Forum and the CEMUS physical spaces in order to meet and discuss and work on food and sustainability.

CEMUS Roots our student organization

CEMUS Roots is the independent student organization at CEMUS. The organizational model varies depending on the students involved, but the Roots functions as a catalyst for student projects and can also channel students into more formal structures, such as the CSD Uppsala board.

CEMUSE – student journalism

CEMUSE is a student-run online magazine in which students of CEMUS and Uppsala University provide commentary and in-depth pieces on the issue of Sustainable Development that are interesting and important to the writer and the wider audience. During 2016 CEMUSE developed a new radio show for the Student Radio, with support from CEMUS Forum. For more info, see: www.CEMUSE.se

Bostadsvrålet

The weekend of October 8-9 2016, CEMUS was one of around 15 partner organizations that together organized a full weekend around housing-related questions. The theme for the weekend was “Myths, power and resistance” (Myter, makt och motstånd) and one special focus was the concept of “renoviction” (“Renovräkning”). The program consisted of more than 20 parallel sessions - both seminars, workshops, exhibitions, film screenings and guided walks in Uppsala. CEMUS was, apart from being active in the work-group in the planning of the event, together with the NGO Friends of the Earth (Jordens vänner) hosting a workshop on the topic “How to renovate for people and the planet?”. Guest speakers at the workshop were Sonja Vidén from KTH and Mikael Mangold from Chalmers.

UU Innovation collaboration

CEMUS and UU innovation had an ongoing dialogue during 2016 about future collaboration at the nexus of innovation and sustainability. A half-day workshop was co-organized in spring 2016, with the idea to explore the potential of co-organizing a larger conference in the years to come.

Regional Centre of Expertise on Education for Sustainable Development (RCE) Uppsala – Gotland

The region of Uppsala has been certified as an RCE since 2013. Since then the Uppsala network has initiated activities connected to the University of Uppsala. 2013 the University of Gotland joined Uppsala University and became Uppsala’s’ twelfth campus. To benefit from the already existing collaboration between Uppsala and Gotland the title of the network was changed to RCE Uppsala – Gotland. RCE Uppsala did, during the year of 2016, transform in to RCE Uppsala - Gotland. The change in name was accepted in April 2016. During the year of 2016 the main objective in RCE Uppsala-Gotland was to establish and develop the collaboration between the partners. The work was focused on finding common ground and joint interests to create collaboration and projects around.

The RCE is coordinated and managed by CEMUS/CSD and has one main coordinator, a member of the CEMUS/CSD staff. The coordinator is the network’s primary contact and also coordinates meetings. The meetings are chaired by one organization/institution in the Steering committee (SC) and we share responsibility in organizing the meetings with support from the coordinator.

During 2016 the Steering Committee (SC) was the main decision-making body of the RCE. The SC is made up by representatives from all key regional partners. During 2016 the SC had 4 meeting in which long term strategic and practical issues, including project RCE-approval, new RCE partners and large scale collaborations, were discussed.

During the end of 2016 and 2017, the Steering Committee will be complemented by a Working Group (WG), which meet more often and has the task to plan and deliver the RCE projects. The SC will therefore meet one or two times during the coming year to discuss strategic and long term questions. While the WG will meet around five times to plan and discuss the projects within the network. During 2016 one main strategy has been to build on the strengths of the RCE-partners. This has been done through sharing news and projects in our Steering Group-meetings and through strengthening the ongoing collaboration projects within the network. Read more at www.rceuppsalagotland.se

JOINT UNIVERSITY PROJECT

UNIVERSITETSGEMENSAMMA PROJECT

Active Student Participation

Active Student Participation (ASP) CEMUS was part of initiating the strategic project Further Development of Active Student Participation at UU, together with students, pedagogical developers and teachers. The project started in 2014 and submitted its final report during the spring 2016, which can be found at <http://www.uu.se/asp>. At UU, the concept of active student participation (ASP) has been identified as a key area for pedagogical development. The resulting report of a two-year collaborative ASP-project between CEMUS and the university's pedagogical development unit, and the resulting response from the Vice-Chancellor and the Quality Advisory Board, maintain that ASP will continue to play a crucial role in the UU's educational development. In this work, ASP has identified CEMUS, with its unique environment for staff and student collaborations, as an important collaborator and leader.

Active student participation, and student-centered teaching and learning, represent the core of CEMUS activities. The courses at CEMUS are coordinator-driven, students are employed to take on the main tasks and responsibility for organizing and running the courses. In the pedagogy used, the coordinators use methods that are proved to enhance deep learning, participatory teaching and learning methods as well as active student participation in its many shapes and forms. In 2016 we have improved and expanded the internal pedagogical discussion for the employed coordinators. Enhancing opportunities for the coordinators to learn more and begin to discuss scholarship of teaching and learning as well as pedagogic development. CEMUS has also been part of several publications and seminars – highlighting specifically the unique model of our courses.

The students taking CEMUS courses are also often involved in the development of the course content in different ways. Overall active student participation, both as approach and method, permeates all of CEMUS activities. This is CEMUS strength and something we proudly will continue developing. Many researches are drawn to CEMUS for its unique student active approach, and there have been many visits during the year. We are happy to facilitate such meetings and auscultations and hope to develop this area even further during 2017.

The faculty has decided in the action plan that all teaching staff shall undergo a course in student-centered teaching and learning (active student participation). These courses will take place during a three-year period and the first course is to be held at the Department of Earth Sciences. The planning for this first course has begun in 2016 and Malin Östman, as a member of TUR - (Council for Educational Development), is one of the persons responsible for this course planning. We hope that the decision taken by the Faculty to emphasize the importance of Student-centered teaching and learning will also be visible in CEMUS activities in the years to come.

Global Citizenship Program Matariki Network of Universities

With strategic and financial support from the Vice Chancellor's office, CEMUS was the coordinating institution of an international conference workshop to develop and launch a new multi-university Global Citizenship program. Members of faculty and students from six of the seven universities in the Matariki Network of Universities (MNU) came together in Uppsala in April 18-21, 2016 for the first international workshop for the new MNU Global Citizenship Program. The workshop's planning was a collaborative effort including students and members of faculty at Uppsala University and Otago University, and workshop participants themselves. With this input, the workshop was primarily coordinated, designed and facilitated by staff at CEMUS. The two initial strands for the program are "Empowering Learners" and "Community Engagement". The workshop used creative and interactive methods to engage both students and faculty, starting the critical exploration process of the meaning of global citizenship and its

implementation for MNU, forming the first steps of the MNU Global Citizenship Program and its future. The workshop received strong positive feedback from participants, illuminating that the skills and capacities developed at CEMUS through its interdisciplinary, sustainability-focused education and innovative working methods transferred well to navigating this new multi-institutional initiative.

Read more and watch the documentary video at: www.CEMUS.uu.se/globalcitizenship/ and <https://matarikinetwork.org/events/global-citizenship-workshop/>

Massive open online course Climate Change Leadership

In December 2015, CEMUS got the assignment to develop one of UU's three MOOC's as part of the first test period. The course started November 7, 2016, and ran for five weeks, it gathered over 1700 learners from almost all countries in the world. A second course run starts April 10, 2017. The MOOC project at UU aims to spread knowledge to the public (outreach), make UU more well-known (recruitment of students), contribute to the development of campus teaching (blended learning), and contribute to the development of knowledge (e-learning) among UU's employees. The Climate Change Leadership MOOC will hopefully reach new students and learners, and inspire people to get involved in working on different aspects of climate change. Read more at: www.futurelearn.com/courses/climate-leadership

The Live Baltic Campus Project – Kollaboratoriet Uppsala

Starting in August 2016, CEMUS became one of the partners in the project Live Baltic Campus (<http://livebalticcampus.eu/>), which runs from 2016-2017 and is supported by EU Interreg funding. Live Baltic Campus aims at developing campuses as innovation hubs by creating better urban environment for businesses and residents. The idea is to create a working method for participative urban planning which is adopted by the cities involved as part of their regular work. The lead partner of Live Baltic Campus is Metropolia University of Applied Sciences. Other partners are City of Helsinki (Executive Office, Economic Development), Riga Planning Region, Stockholm University, University of Latvia, University of Tartu, University of Turku and Uppsala University.

In the Live Baltic Campus project, CEMUS's main objective is to develop the concept of a new physical space, called Kollaboratoriet Uppsala (<http://www.kollaboratorietuppsala.se/>), on Östra Ågatan in down-town in Uppsala. During the fall of 2016, CEMUS hosted several events and discussions in order to develop the concept and design for Kollaboratoriet. As a part of the Live Baltic Campus project, Kollaboratoriet Uppsala will also contribute and facilitate the process of developing an integrated campus plan for the long-term development of Uppsala University's campus in the Uppsala region.

In September, CEMUS and IBF organized an open lecture and workshop with the guest Keri Facer, Professor of Educational and Social Futures at the University of Bristol. In her lecture, Keri shared ideas and research from working with new ways of organizing the collaboration between formal educational institutions and wider society. In the workshop the participants were asked to discuss how the new space, now called Kollaboratoriet, can work together with its' surroundings and what functions should be included.

During the fall, November 14-16, CEMUS co-organised the Livable City Forum Uppsala (<http://livebalticcampus.eu/forum2/>). The conference had around 70 participants, and almost 20 speakers, throughout the three days. The conference tackled questions regarding various roles of a university in a city and in society, what makes a successful design of creative urban milieus, sustainable and participatory urban design and critical perspectives for collaborative design and planning. During the Livable City Forum Uppsala, the local and international guests were asked to give input to how a space like Kollaboratoriet could be developed and what it should entail.

In December CEMUS had three researchers from Spaces of climate and energy laboratory (SpaceLab) (<https://spacelab.b.uib.no/>), University of Bergen, Norway, visiting us. As part of their visit, we hosted a conversation in Kollaboratoriet focused on sharing learnings and experiences from similar spaces and processes.

The concept of Kollaboratoriet is still evolving. It will open for public use in March 2017 and will then be designed to be a multi-purpose space for different types of activities that emphasize collaboration, learning and developing ideas for a better world.