



UPPSALA
UNIVERSITET



CEMUS

Annual Report 2015

Research, Education, and Outreach

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Introduction

The goal and vision that has been driving CEMUS since its inception in the early 1990s is still relevant almost twenty-five years later: *To change the world into a better place for all*. We have been doing this through the three main missions and activities – research, education and outreach.

The first course, *Människan och naturen* (Humanity and Nature), initiated and coordinated by students, was given for the first time in 1992¹. CEMUS Forum organized open events from 1992 onwards and when CEMUS became a centre at Uppsala University and SLU in 1996, a vibrant meeting place for students, researchers and local actors was created in Celsiushuset downtown Uppsala. In 2002, CEMUS Research School² CEFO, started its research seminar, PhD courses, workshops and publications, organized and led by PhD-students, researchers and professors.

¹ Unfortunately cancelled in 2015 due to economic constraints and less students interested in free standing (fristående) courses given only in Swedish.

² CEMUS Research Forum as of 2007

1. RESEARCH

FORSKNING OCH FORSKARUTBILDNING

Zennström Visiting Professorship in Climate Change Leadership

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<http://www.csduppsala.uu.se/ccleadership/>

See separate report for the Zennström Visting Professorship in Climate Change Leadership.

CEFO – CEMUS Research Forum and CSD-CEFO/NRHU Sustainability Seminar 2015

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CEFO - Transdisciplinary Research for a Better World

CEMUS Research Forum, CEFO, is an interdisciplinary research forum for PhD students and researchers that focuses on environmental and development studies. CEFO was created in 2002.

<http://www.csduppsala.uu.se/cefo>

CEFO's new challenges

Several changes have occurred since CEFO was created under CEMUS in 2002. These changes have brought new challenges but also new opportunities. The changes include:

- Incorporation of CEMUS under CSD (2007).
- The reorganization of the CSD under GEO (2013)
- Loss of SLU's support for CEFO in 2013, with 319 000 SEK. This loss has not been replaced with funds from other sources. UU:s funds (519 000 SEK) does not fully cover CEFOs coordinator annual salary of 50%.

Several institutional changes follow the above-mentioned processes. Meanwhile CEFO has grown, CSD established itself as a platform for sustainability issues. The new situation demanded that CEFOs mission was redefined in tune with CSDs new and enhanced role. As CEFO became part of CSD, CSDs incipient seminars stated to be run together with CEFOs activities and became CEFO/CSD Sustainability Seminar, the new working name to advertise seminars, emphasizing at the same time the ambition to be a joint research seminar for CSD; all without any additional funding.

The reorganization of CSD under GEO (2013) and the loss of SLU's support led several researchers (Associate Professor Gloria Gallardo, CEFO Coordinator and Professor Emeritus Lars Rudebeck, associate professor Mikael Hook and PhD Simon Davidsson from the new NRHU program) to initiate a new collaboration with the newly created research program "Natural resources focusing on sustainable development" (NRHU - formerly Global Energy Systems) at the department of Earth Sciences, UU. This group took over the planning discussions that had begun a few years earlier without crystallizing; all this with the support of CEMUS and the rest of the CSD. The new research seminar has now become CSD-CEFO/NRHU Sustainability Seminar that in this way unites CEFO-CSD and NRHU in a single venue that creates the conditions for a larger interdisciplinary dialogue and research on sustainable development. We hope therefore that the new seminar will fulfil two functions:

- Become a base for some of the PhD students from the department of Earth Sciences, especially from NRHU, as well as for individual researchers from other PhD programs. We believe that we have succeeded in establishing the Sustainability Seminar as a base for NRHU's doctoral students and senior researchers, in addition to CEFO-PhDs, MSc and masters students. NRHU has recently received two new post doc.
- Become a base for researchers at Uppsala's two universities interested in sustainable development and thus also for a broader group of researchers interested in sustainability issues. We believe we have taken important steps in this direction, as several of our presenters have come from other universities, including foreign. The new Sustainability Seminar, meeting regularly every other week, constitutes a systematic and stable foundation to build on for the next activities around the incoming second Zennström professorship.

CSD-CEFO/NRHU Sustainability Seminar is thus the result of CEFO joining forces with GEO's PhD programme Natural Resources and Sustainable Development (NRHU), with which we share the CSD premises as well as our interdisciplinary sustainability focus.

CSD-CEFO/NRHU Sustainability Seminar

Starting with our common activities in February 2015, our new Sustainability Seminar has organized a series of interdisciplinary seminars and one PhD course together with international and national guests, and we have now completed our first year of collaboration. Several of our activities during 2015 took place in collaboration with CEMUS; The Global Marine Governance Network – Transformative Reconstruction Towards Agency, Global Equity and Ecological Sustainability (ISCC project, 2014-2015); and the network 'People, nature and sustainability network. Environmental humanities, social and natural sciences perspectives on the development of the Arctic and Sub-Arctic region' (2013-2015).

During 2015 CEFO has had the following associated PhD candidates:

- | | |
|--|---|
| 1. Simon Davidsson
(GEO/CSD/NHRU, UU) | 8. Johanna Jokinen (Kultgeog, UU) |
| 2. Claudia Abril (Geo, UU) | 9. Pianpian Wu (SLU) |
| 3. Tong thi hai hanh
(GEO/CSD/NHRU, UU) | 10. Huayi Lin (SLU) |
| 4. Orn Uma (GEO/CSD/NHRU, UU) | 11. Suvi Kokko (Dept. of Economics,
SLU) |
| 5. Marcus Wallner (kultgeog, UU) | 12. Huayi Lin (SLU) |
| 6. Taylor Brydges (kultgeog, UU) | 13. Kristina Börebäck (Dept. of
Education, Stockholm University) |
| 7. Dominic Teodorescu (kultgeog,
UU) | |

Besides associate professor Gloria Gallardo, professor emeritus Lars Rudebeck (both at CSD Uppsala) and associate professor Mikael Höök and post-doc Magdalena Kuchler (both at NRHU), who regularly run the Sustainability Seminar, other participants who more or less regularly attend our activities are:

- | | |
|--------------------------------|---|
| 1. Li Luoyu (SLU) | 8. Beto Isakson (MSc in SD) |
| 2. Kjell Aleklett (Geo, UU) | 9. Paula Lenninger (MSc in SD) |
| 3. Guoke Giang (Geo, UU) | 10. Ruban Ann (Central University
Hungary) |
| 4. Martin Mickelsson (Edu. UU) | 11. Alin Kadfak (Global Studies,
Göteborg Universitet) |
| 5. Yoshiko Asano (CSD, UU) | 12. Niak Sian Koh (MSc in SD) |
| 6. Magnus Aberg (Ångstrom, UU) | |
| 7. Daniel Bergquist (SLU) | |

The series of research activities connected to CEFO is listed further below. More details are provided in the attachments.

Regular activities spring and autumn 2015

During the spring term, 8 seminars took place, which included 10 presentations. During the autumn term, 7 seminars took place, which included 8 presentations. Presentations were from CEFO associated PhDs candidates, senior researchers from CSD and NRHU, and from abroad (Hungary and Germany), as well as master students from the Sustainable Development programme (UU/SLU). We have had two hundred registrations for our Sustainability Seminar during 2015. The average number of participants per seminar was 12.

PhD courses

Due to economic constraints (loss of support from SLU amounting to 350 000 SEK), CEFO had only one PhD course during 2015 (Nov). The course was entitled Natural Resource Use – An Interdisciplinary Perspective on the Challenges of Transformation towards Sustainability. It was held in Uppsala in collaboration with GEO's PhD programme Natural Resources and Sustainable Development (NRHU) (23-27 Nov.).

The course critically examined themes such as energy production, mining and forestry, highlighting the interdependency between these sectors, as well as the interconnections between global and local socio-economic and environmental processes. The course covered the analysis of competing scientific discourses and their basic assumptions on the nature of society, science and the market, but also of various social actors, represented by the chosen study cases. The course also combined technical perspectives and solutions of present environmental challenges with social viewpoints and discourses from the field of Political Ecology.

Participating PhD students came from various Swedish and foreign universities, such as Dept. for Media Studies, Stockholm University, Dept. of Energy and Technology, SLU, Dept. of Earth Sciences, Uppsala University; Dept. of Law, Uppsala University; Dept. of Chemical Engineering, Lund University, as well as students from Estonia and Latvia. Some master students attended the courses due to their own interest in the subject without needing the credits. The teachers came from Lund University, Södertörn, NRHU, GEO, CSD, University of Zaragoza, Spain, SGU and Linköping University. The course evaluations from students were predominantly positive (5. Strongly Agree and 4. Agree). The questions that got a lower mark dealt most with the level of difficulty of the literature and its amount. Out of a total of 11 students, 8 answered the evaluation questionnaire.

Other activities during 2015

This year the filmed lectures from the CEFO PhD course Green Economies: Making the shift toward sustainability (November 2014) were put on CEFO's home page as open access, for the first time with a CEFO PhD course (<http://www.csduppsala.uu.se/research/cefo/>). The lectures available at CEFO webpage are:

1. Thomas Hahn, Economics and sustainability. What is the green economy?"
2. Staffan Laestadius: "The transformation ahead: combining climate change mitigation with future welfare"
3. Mikael Malmaeus: "Beyond GDP growth – work and welfare in the new economy"
4. Magnus Emfel: "Sustainable Finance. The Science, The challenge, The response"
5. Jason W. Moore: "Green Economy, Green Capitalism? Or, the End of Cheap Nature?";
6. Karin Bradley: "The sharing economy: The potential of emerging utopian micropractices";
7. Christer Sanne: "Living sustainably – how bad is that?"

Research activities connected to CEFO 2013-18

During 2015, the Cefo coordinator (associate professor Gloria Gallardo), got 1 million SEK from VR's Swedish Research Links for three years (2016-2018) for the international network project Co-creation of a sustainable fisheries future through TURFs. A comparison between Vietnam and Chile with an interdisciplinary group of researchers involving universities and other stakeholders on the issue of fisheries' collapses and governance failures. The project involves the following partners from Asia, Latin America and Africa:

- Hue University of Agriculture and Forestry in Vietnam: Dr. Truong Van Tuyen
- Environmental Evaluation Unit (EEU) at the University of Cape Town in South Africa, Dr. Serge Raemaekers
- Centro de Ciencias Ambientales (EULA), Universidad de Concepción (<http://www.eula.cl/>), Chile: Dr. Ricardo Barra, Dean of the EUAL Faculty
- School of Natural Sciences, Technology and Environmental Studies, Södertörn University, Sweden: Dr. Fred Saunders.

2014-2015, the CEFO coordinator, associate professor, Gloria Gallardo got the international networking project Global Marine Governance Network – Transformative Reconstruction Towards Agency, Global Equity and Ecological Sustainability financed by the International Social Science Council (ISCC) (30 000 Euro), together with an interdisciplinary group of researchers involving universities and other stakeholders in Vietnam, Poland, Chile and South Africa.

2013-2015; the CEFO coordinator, associate professor, Gloria Gallardo got 100 000 SEK from the Swedish Polar Research Secretary to coordinate (with Fred Saunders) the network 'People, nature and sustainability network. Environmental humanities, social and natural sciences perspectives on the development of the Arctic and Sub-Arctic region', which also involves an interdisciplinary group of researchers from different universities.

These activities have further expanded CEFO's international contacts and moreover resulted in joint publications, primarily with researchers from Africa and Latin America but also from Asia and Europe.

Articles submitted for publication in 2015

- Sieglind Wallner-Hahn,, M. de la Torre-Castro, S. Molander, G. Gallardo, J. S. Eklöf, S. Villasante, N. S., Jiddawi and L. Lindström (submitted 2015), 'Destructive gear use in a tropical fishery: Institutional factors influencing the willingness- and capacity to change', Marine Policy.
- 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 International Journal of Agricultural Sustainability.) 'A political ecology and emergy analysis of agrofuels in Brazil'.
- Thanks to the international networking project (2014-2015) Global Marine Governance Network – Transformative Reconstruction Towards Agency, Global Equity and Ecological Sustainability financed by the International Social Science Council (ISCC) (30 000 Euro), received during 2014, by the Cefo coordinator, together with an

interdisciplinary group of researchers involving diverse universities and stakeholders in Vietnam, Poland, Chile and South Africa, we have authored Transformation of Small-scale Fisheries – Critical Transdisciplinary Challenges. The paper has been selected for publication in Current Opinion in Environmental Sustainability (COSUST) Special Issue on Co-Design and Co-Production, on the theme of Small-scale fishers and the challenges of globalization, Edited by S. Moser and S. Moore. The paper was also presented at the SANORD Conference Namibia 1-3 December 2015 “What is the role of Higher Education institutions and North - South collaboration in shaping the UN Development Agenda Post-2015?”

- During 2015, also the interdisciplinary article 'Exploring the implications of different assumptions about the World: An experiment to investigate the socio-ecological relations of reindeer herding in the Sub-Arctic region of Sweden has been finalized and is being in process of editing references for submission (authors are Gallardo F. G. L., F. Saunders, T. Sokolova, K. Börebäck, F. van Laerhoven, S. Kokko, L. Eunice, and M. Tuvedal).

Other visits abroad

Together with Uppsala University's Vice-Chancellor, the Cefo coordinator also visited Eduardo Mondale University in Maputo, Mozambique (3-4 December 2015), to discuss collaboration. Before going to Mozambique, she also visited Namibia for the SANORD issues (Southern African-Nordic Centre) Conference.

Planned activities for Sustainability Seminar 2016

The activities that we have planned for 2016 (see below) are facilitated this year thanks to funds available due to the absence of a CSD director. If equivalent funds are not made available in an alternative manner for 2017, the fruitful cross-fertilization now underway between MSc, master students, doctoral students and more established researchers, both nationally and internationally may be jeopardized. Furthermore, the stability and future development of the Sustainability Seminar would also be jeopardized, including its strong potential as a significant partner in activities around the incoming second Zennström professorship. Therefore, to ensure the continued existence of CSD/CEFO-NRHU Sustainability Seminar additional financing will be required from 2017 and onwards.

List of planned activities:

- Keep up the present rhythm of 8 regular seminars per semester
- Hold two short workshops/courses and produce two thematic anthologies
- Hold one annual retreat with an invited international guest
- Participate in Cemus Sustainability Festival
- Internationalize Sustainability Seminar by inviting 3 post docs from developing countries (see below)

Internationalizing CSD with a South perspective

One feature that has been partially absent in CSD and CEFO is a more international presence of academics from Africa, Latin America and Asia in direct contact with their home country research environments. In order to further strengthen the Sustainability Seminar as a base for a wider group of researchers interested in sustainability, we have the ambition to both internationalize CSDs research with direct contributions from developing countries and to balance the hitherto existing dominance of researchers and discourses from the Anglo-Saxon world in terms of sustainability research. This would also be a way to advance our own work in Uppsala. Short periodical stays for post-docs from these continents would reinforce CSD's research environment, increase the critical mass and strengthen perspectives on sustainable development from the global south. CSD already receives many such requests.

As a first step in this ambition, Sustainability Seminar will devote its first workshop-retreat to agriculture's new challenges under the title Scale, Security & Sustainability - Challenges for

Agriculture in the 21st Century. For this, and as the first representative from Latin America, we have invited the new PhD Gloria Rotolo (INTA/Instituto Nacional de Tecnología Agropecuaria, Argentina). We have, in addition also invited PhD Paulina Rytönen (Södertörn University) and PhD Christina Belfrage (SLU; not yet confirmed). The research theme for Gloria Rotolo would be "Environmental Assessment of maize production alternatives: Traditional, intensive and GMO-based cropping patterns". For Paulina Rytönen the theme would be "New ruralities in Northern Sweden", and for Christina Belfrage, "Small-scale farming opportunities". Our guests will also hold public lectures within the framework of Cemus Sustainability Festival in late May. In addition, Gloria Rotolo will hold lectures at some of CEMUS' undergraduate and master courses.

Another initiative we consider is to affiliate ambitious and talented MSc and master's students. These constantly turn to CEFO in search of support and contacts. Most of them come from countries other than Sweden - but without the same rights as graduate students, as CEFO funds are 'earmarked' for PhD students. These MSc and master's students come from several different master programs: International Master's program in Sustainable Development (MSD; UU's and SLU's joint programs), the master's program in Environmental communication (SLU) and the master's program in Global Environmental History (UU). They have become a welcome feature with their interest in sustainable development, through their active participation in seminars and courses as well as contacts with PhD students. They have been active in supporting PhD students in course coordination, conferences, travel organization, film presentations and in receiving our national and international guests.

To internationalize CEFO is well in line with Uppsala University's program for internationalization:

Uppsala universitet ska stärka sin position som ett världsledande universitet. Internationell samverkan är ett medel, en strategi, för att uppnå ökad kvalitet inom forskning och utbildning.

This ambition also goes well with SLU's strategic goal to:

ha en stark internationell dimension, bl.a. genom strategisk samverkan med utländska universitet och forskningsinstitut", att SLU "stärker Sveriges ställning som kunskapsnation och bidrar till utveckling av global förvaltning och hållbart nyttjande av naturresurser" and to "jämförhets- och mångfaldsperspektivet har en stark ställning i hela verksamheten.

2. EDUCATION

UTBILDNING PÅ GRUNDLÄGGANDE OCH AVANCERAD NIVÅ

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Student-Led Education for a Better World

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 and programs 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.

www.cemus.uu.se/education

Students and Courses

Courses given during 2015

During 2015 CEMUS gave the following courses and course packages (Swedish titles indicate course given in Swedish, English title course given in English; the number of registered students in brackets):

Spring [284 students]

- Hållbar utveckling B (HUB) 30 hp/credits [20 students]
- Hållbar utveckling – värderingar, världsbilder och visioner (VVV) 15 hp/credits [10 students³]
- Teknik, makt och mänsklighetens framtid (TMMF) 7.5 hp/credits [18 students⁴]
- Livsfilosofi och det moderna samhället (LF) 7.5 hp/credits [9 students⁵]
- Applied Sustainability Studies Course Package (APSS) 30 hp/credits [students registered on the courses within the package – ASC, SDESIGN, CCL and SDPMC]
- Actors and Strategies for Change – Towards Global Sustainabilities (ASC) 7.5 hp/credits [50 students]
- Sustainable Design – Ecology, Culture and Human Built Worlds (SDESIGN) 7.5 hp/credits [52 students]
- Climate Change Leadership – Power, Politics and Culture (CCL) 15 hp/credits [42 students]
- Sustainable Development - Project Management and Communication (SDPMC) 15 hp/credits [23 students]
- Sustainable Development - Worldviews and Discourses - a Seminar Series (MSD Seminar Spring) 5 hp/credits (within the Master Programme in Sustainable Development) [36 students]
- Technology, Power and the Future of Humanity (TPFH) 7.5 hp/credits, distance [24 students]

Autumn [333 students]

- Hållbar utveckling A (HUA) 30 hp/credits [46 students]
- Global miljöhistoria (GMH) 7.5 hp/credits [7 students⁶]
- Klimatet, energin och det moderna samhället (K&E) 7.5 hp/credits [6 students⁷]

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

- Global Sustainability Studies Course Package (GLSS) 30 hp/credits [students registered on the courses within the package – GCSF, SDSWE, GEC and SDPMC]
- Global Challenges & Sustainable Futures (GCSF) 7.5 hp/credits [45 students]
- Critical Perspectives on Sustainable Development in Sweden (SDSWE) 7.5 hp/credits [36 students]
- The Global Economy – Environment, Development and Globalization (GEC) 15 hp/credits [54 students]
- Sustainable Development - Project Management and Communication (SDPMC) 15 hp, credits [22 students]
- Introduction to Interdisciplinary Science (Intro MSD) 5 hp/credits (within the Master Programme in Sustainable Development) [59 students]
- Sustainable Development - Worldviews and Visions - a seminar series (MSD Seminar Autumn) 5 hp/credits (within the Master Programme in Sustainable Development) [58 students]

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 2015

The following courses were cancelled during 2015:

- Människan och naturen (M&N distans) 7.5 hp/credits, distance (spring)
- Life's Philosophy and Modernity, 7.5 hp/credits, distance in English (spring)
- Urban Agriculture – Permaculture and Local Food systems (UAG), 7.5 hp/credits, in English (summer)
- Människan och naturen (M&N) 7.5 hp/credits, in Swedish (autumn)

These cancellations are mainly due to budget constraints and the overall lack of space for free-standing students (brist på helårsstudieplatser för fristående studenter). During 2015 Sustainable Water Management in the Baltic Region, 15 hp/credits, and SAIL - Sustainability Applied in International Learning, 7.5 hp/credits, run by the Baltic University Programme, were also cancelled due to the same reasons, and problems with the administration of those courses.

Changes courses 2016-2017

Two new courses have been added for the autumn 2016:

- Climate Change Leadership in Practice, 30 hp/credits
- Experts-in-Teams: Interdisciplinary Projects for Sustainable Development, 5 hp/credits

The following course packages have not been included in the catalogue for 2016-2017:

- Global Sustainability Studies Course Package (GLSS) 30 hp/credits (autumn)
- Applied Sustainability Studies Course Package (APSS) 30 hp/credits (spring)

Courses cancelled during 2015 (see above) will not be given autumn 2016 – spring 2017. No new courses planned for spring 2017. From the autumn semester 2017 the Experts-in-Teams will be offered to all master level students at Uppsala University (possibly SLU).

Course and programme development 2017 and beyond

In Uppsala University's sustainable development policy program and connected action plans (program för hållbar utveckling och medföljande handlingsplan) it states that students should have the opportunity to include more elective courses in sustainability in their programme studies, and that the university should develop new programmes with a focus on sustainability.

From 2017 onwards CEMUS will seek to develop and coordinate the following programmes and courses:

- An international bachelor in Climate Change Leadership combined with a kandidat in Swedish in hållbar utveckling.
- A master programme in Climate Change Leadership alternatively a track within the Sustainable Development master programme.
- Developing and starting freestanding and programme specific courses based on the interests and ideas of students, staff, researchers and different partners at UU, SLU and elsewhere (and as always a long term strategy for funding).

Yearly student equivalents – Helårsstudenter, HST 2015

CEMUS assignment during 2015 was divided between three faculties and six different categories. The Faculty of Science and Technology, Teknat, divided the assignment of 95 HST for CSD (CEMUS and Baltic) for 2015 into the following categories:

- Free-standing (fristående) 52 HST
- Teknat programme students 18 HST
- Exchange students 25 HST

Other categories for CEMUS include (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 2015 looks as follows (with 2014 in brackets):

	Free-standing Fristående studenter	Teknat programme students	Exchange students	Humsam programme students	Fee- paying students	CIEE fee- paying	Total
Uppdrag Teknat CSD	52 [69]	18 [14]	25 [18]				95 [101]
Result HST ⁸ CEMUS	62,3	13,8	27,0	6,6	5,1	0,6	115,4 [128,1]
Result HSTK ⁹ CEMUS							118,4 [124,5]
Result HPR ¹⁰ CEMUS							93,8 [72,4]
Result HPRK ¹¹ CEMUS							116,7 [81,0]
Number of students CEMUS							617 [698]

Assignment yearly student equivalents – Uppdrag helårsstudenter 2017 and beyond

The following aspects need to be addressed by Uppsala University and its faculties and SLU:

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

⁹ HSTK, helårsstudenter kalenderår 2015 - Yearly student equivalents 2015

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

¹¹ HPRK, helårsprestationer kalenderår 2015 - Yearly performance equivalents 2015

- We are happy to see that during 2014-2015 there has been a growing number of programme and exchange students from SLU. An assignment (uppdrag HST) for programme students and exchange students from SLU has not been discussed and agreed upon. This is something that should be discussed and decided upon during 2016.
- A short term 2016-2017, as well as a long term discussion with Teknat and other faculties at UU on CSD/CEMUS assignment (uppdrag) for free standing (fristående) should be started during 2016. The assignment for free standing courses has decreased from 140 (2012), 91 (2013), 69 (2014), 52 (2015), to 44 (2016).
- How HST (helårsstudieplatser) and resources can be made available for developing new programmes from 2017 onwards.

Student Impressions – Studenternas omdöme av kurserna

Overall, CEMUS' students have been very pleased with the education and also regard the learning outcomes to have been fulfilled to a high degree. For the spring semester courses, the average overall impression of the courses (where 1=bad and 5=excellent) was 4.2 out of five (4.1 for VT2015) and for the fall semester 4.1 (4.1 for HT2014). The students' average assessment of the fulfilment of the learning objectives (where 1=not fulfilled at all and 5=fulfilled to a high degree) was 4.0 for the spring semester (4.0 VT2014) and 3.9 for the fall semester HT2015 (3,9 HT2014). The overall impressions of individual courses ranged from 3.6 to 5 in the spring semester and 4.0 to 4.65 in the fall semester.

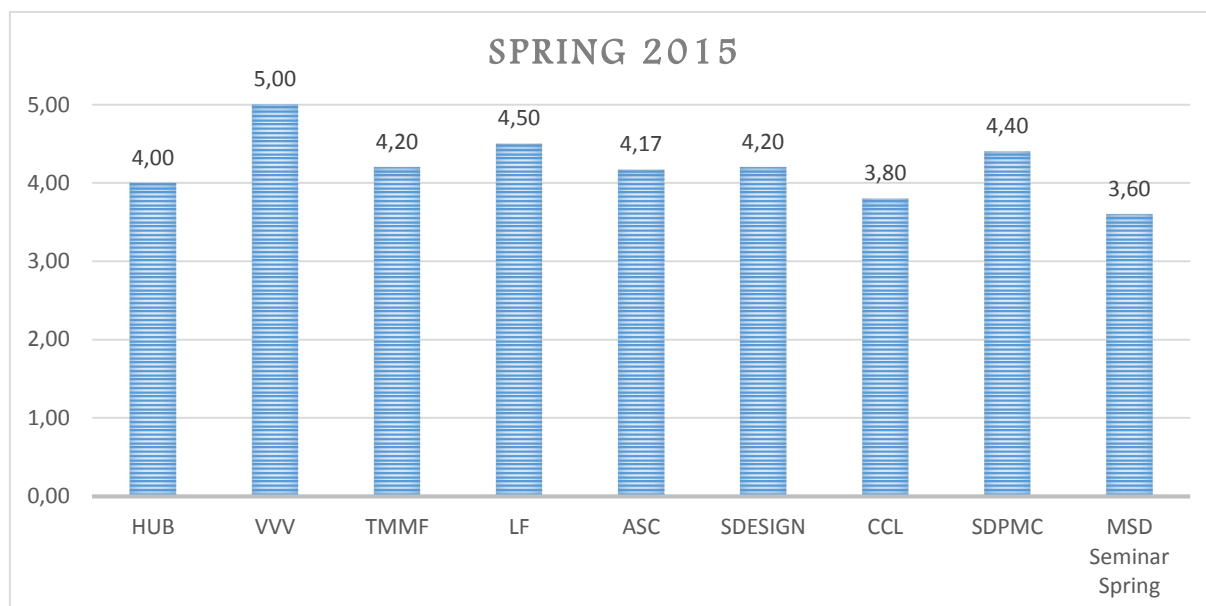


Figure 1: Overall impression (helhetsintryck) of the spring semester courses (5=excellent 1=bad)

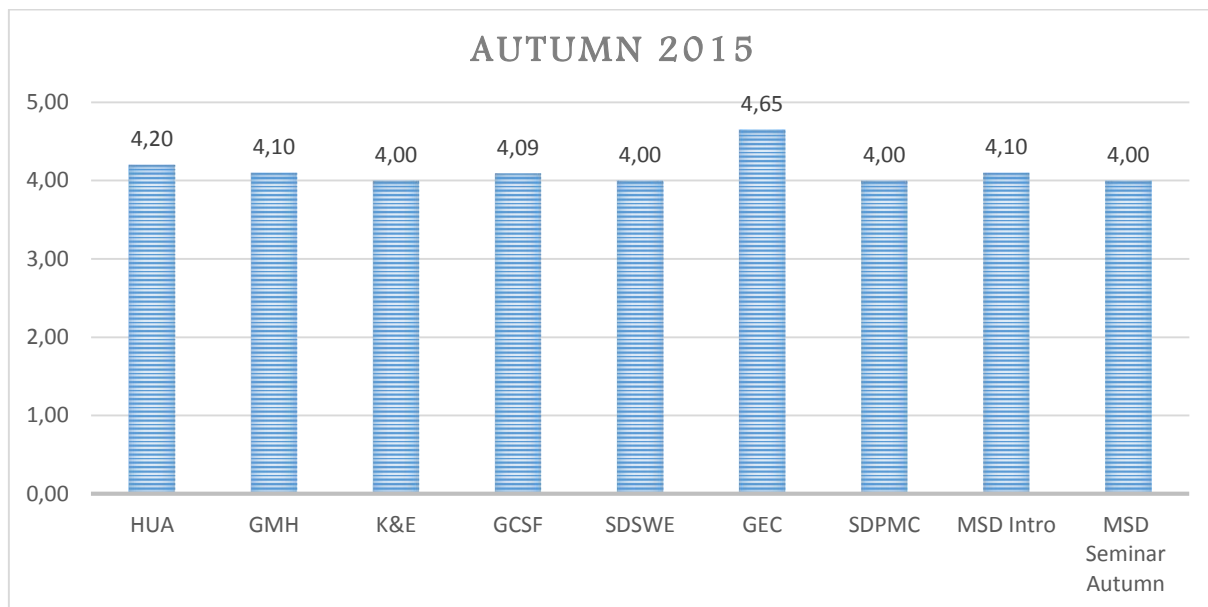


Figure 2: Overall impression (helhetsintryck) of the autumn semester courses (5=excellent 1=bad)

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 (above 4.0 of 5 both for the spring semester and for the autumn semester)¹². Furthermore, almost all of the students that have completed course evaluations would recommend the course to a friend¹³.

Continuing a trend from previous years, the average student impression of the courses has stabilized at a high level. In fact, during both spring and fall semesters the last five years (2011, 2012, 2013, 2014 and 2015), the average student impression of the courses has consistently been at 4.0 (out of 5.0) or higher. 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

TUR – Teknisk-naturvetenskapliga fakultetens universitetspedagogiska råd

Malin Östman works in the capacity of a member of TUR - teknisk-naturvetenskapliga fakultetens universitetspedagogiska råd. As of January 2015, she is working 15% with TUR activities on a faculty-wide level.

Participation in Educational Conferences, publications and teaching and learning collegium

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 2015 several articles and texts exploring the form and content of the education at CEMUS have been published in various formats and forums.

¹² note that data is not available for all courses

¹³ note that data for this question is not available for all courses

The role of working as a course coordinator (amanuens) includes attending seminars and discussions on pedagogics organised by CEMUS, often with external guests contributing to the conversation. The content and form of this “academic teaching and learning collegium” is constantly developed in a democratic and collegial tradition.

Pedagogical development of the Master Programme in Sustainable Development

Malin Östman has been working with the programme progression during the fall of 2015.

Active Student Participation in Higher Education

The Uppsala University wide project “Continuous Development of Active Student Participation in Higher Education” (2014-2015) continued its work in 2015. For more information visit: <http://aktivstudentmedverkan.uadm.uu.se/>.

“Eksperter i Team” (Originally a Norwegian concept from NTNU – Trondheim)

CEMUS has applied for, and been rewarded TUFF funding (Teknisk-naturvetenskapliga universitetspedagogiska förnyelsefonden) for working with the pedagogics around a course using the EiT-pedagogics. The course is set to run for the first time in fall of 2016.

Pedagogical Development Projects

PUMA UU: Student Reflection on Learning before Embarking on an Interdisciplinary Master Program – Ben Owen and Daniel Mossberg

Inspired by the TUK 2015 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 2015 and will be completed during 2016.

TUFF Teknat, UU: Development and pilot-testing of an intensive and interactive workshop as a pedagogic tool for introducing sustainable development to students from various disciplines, which integrates design thinking, prototyping and future scenarios – Lakin Anderson and Daniel Mossberg

In the project we are seeking to develop and pilot-test a day-long educational workshop to introduce master-level and advanced undergraduate level students - studying within various disciplines - to the field of sustainable development. The ‘Prototyping the Future’ sustainability workshop will integrate design thinking, prototyping, and future scenarios to introduce students to the challenge and complexity of working with sustainability, and do so in a way that is engaging rather than daunting. Recent projects and research in design education have shown these techniques can be highly suited to education for sustainable development (ESD) contexts. This project builds on content implemented in the course Sustainable Design: Ecology, Culture and Human Built Worlds, offered at Uppsala University since 2011. The project started 2015 and will be completed during 2016.

Internationalization - Internationalisering

CEMUS is continuously taking part in both the local, regional and global discussion on education, pedagogics and sustainable development. CEMUS consists of a vast network of

students, researchers and alumni and many new guests visit CEMUS each year. In 2015 we had many guests and experienced an increase in the interest in our student-led 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 2015 CEMUS education was represented in academic literature and articles as well as more publically accessible forms. This is something we aim to develop further during the coming year. During 2015 we strengthened our democratic and collegial work environment and this is something we aim to develop even further during 2016, to strengthen and improve our organisation and education.

Action for Sustainability in Higher Education in the Nordic Countries (ActSHEN), 2013-2015

The goal of the ActSHEN project is to develop a model and guidelines for working with sustainability in higher education with an emphasis on student-led initiatives. The aim is to investigate ways in which participatory and collaborative education for sustainability can be strengthened in universities in the Nordic region. The project is carried out by six teams; from the University of Iceland, School of Education; Uppsala University, CEMUS and Department of Education; Umeå University; University of Helsinki, Department of Chemistry; the Iceland Academy of the Arts; and Telemark Research Institute.

During 2015, CEMUS hosted a group of students from Helsinki University (in April) that were planning a course inspired by CEMUS' model for student-led education. Three CEMUS course coordinators participated in a 'critical friend' visit at University of Iceland in June, and a CEMUS educational coordinator participated in ActSHEN's steering group meeting in October. Several meetings, courses, exchange activities and publications are planned for 2016.

E-learning and Distance Courses – E-lärande och distanskurser

A Massive Open Online Course on Climate Change Leadership

In December 2015, CEMUS got the assignment to develop one of Uppsala University's three Massive Open Online Courses. Preliminary meetings were conducted in 2015, and course development proceeds in spring 2016. The course will be run in the fall of 2016.

3. OUTREACH

SAMVERKAN

CEMUS Forum

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CEMUS Forum – Collaboration & Partnership for a Better World

www.cemus.uu.se

Outreach and collaboration is an integral part of the CEMUS model. CEMUS Forum arranges conferences, open lectures, film screenings, discussions and workshops among other activities. Many of the activities are co-arranged by students, or with researchers and community actors. The CEMUS Forum also acts as a project 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, between 10-15 student projects get support through the CEMUS Forum annually.

A key principle is that activities arranged by CEMUS Forum should be accessible and relevant for students and staff, but also for researchers, alumni, citizens, representatives from civil society and local and regional governmental organizations. The goal of the forum is to expand and develop the CEMUS educational model through bridging divides between the theoretical and the practical, the traditional academic world and the larger society, and between young and old. CEMUS Forum wants to be a meeting place for people interested in interdisciplinary perspectives, and for those who want to bring about a better world.

CEMUS Forum also has some more formalized collaborations with other actors. These include Folkuniversitetet, Uppsala Municipality, The Sigtuna Foundation, Riksteatern and Schumacher College. 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.

Open lectures, seminars and events

During 2015 CEMUS Forum organized and co-hosted 56 open events and 2 sustainability festivals, see appendix C and check www.cemus.uu.se for advertised events 2016.

CEMUS Sustainability Festival

On May 28th and December 16th CEMUS organized the co-created sustainability festival. See appendix C and info at www.sustainabilityfestival.se

Framtidsakademin

Framtidsakademin is a collaboration with Folkuniversitetet that together run a lecture series twice a year. The themes of Framtidsakademin (the Future Academy) during 2015 were ‘Current Affairs’ (spring semester) and ‘Borders’ (fall semester). See the full programs in Appendix D, or at:

<http://www.folkuniversitetet.se/Har-finns-vi/Uppsala/Forelasningar/Framtidsakademin/>

Framebreaking Fridays and Culture in the Shadow Climate Change - A collaboration with Riksteatern and the Research Node Mind and Nature

In the fall of 2015, on the first Friday of every month, an international guest artist visited Uppsala to initiate conversations to unsettle some of the frames and assumptions that shape our understanding of the world – A world in the shadow of accelerating climate change. Each “Framebreaking Friday” engaged students, researchers, educators and the interested public, in a variety of seminars and gatherings that explored the spaces in-between – between disciplines, between the world of art and academia, and between humanity and the more-than-human world.

The initiative was a collaboration between CEMUS, Riksteatern and the Research Node Mind & Nature, made possible with funding from UU innovation (see Appendix E). A final workshop in 2016, explored possibilities for further collaboration based on the experiences of the fall.

More info at: <http://www.web.cemus.se/research/framebreaking-fridays-culture-in-the-shadow-of-climate-change/>.

Project Cafés

Together with the student group CEMUS Roots the forum has arranged several Project cafés during the year. At these cafés students and local actors in Uppsala can present different projects that students can take part in. Students can also start their own project at these cafés and get support from CEMUS forum. This is one of the ways in which we act as a platform for students.

Master students develop a Sustainable Development Plan for Uppsala

Together 60 master students in sustainable development at UU and SLU developed a set of key policy recommendations aimed to guide a city-wide transformation towards a more sustainable Uppsala. After identifying the challenges that Uppsala municipality is faced with, different student groups have developed a series of innovations to address these challenges and worked for the development of a municipal strategy.

More info at: <http://www.web.cemus.se/2015/11/18/master-students-develop-a-sustainable-development-plan-for-uppsala/>

CEMUS at Schumacher College

CEMUS partnered up with Schumacher College, the Transition Network and the New Economy Organizers Network in hosting the ‘Generation of the New Economy’ festival April 13-18th at Schumacher College in the UK. More info: <http://www.generationoftheneweconomy.com/>

REALS project

The REALS-project (Resilient and Ecological Approaches for Living Sustainably), is a three year project, funded by Svenska institutet, coordinated by Permakultur Sverige. CEMUS and other organizations across Russia and Belarus are partners in the project. The main aim of the collaboration from CEMUS side is to enable student participation in the yearly meetings and Sustainability conferences and festivals that are arranged by the project. This year a student and a staff representative from CEMUS went to the Russian ecovillage Kovcheg for a three day ECO-festival and partner meeting. There is even greater potential in the project to send more students with an interest in permaculture also in the future. More info: <http://realproject.org/>

Planned new activities 2016

Climate Existence conference April 2016

CEMUS has a long history of cooperation with the Sigtuna Foundation. In april 2016 we are hosting the Climate Existence conference together. The guests are both from academia,

politics, civil society and the arts and include minister of aid Isabella Lövin, the Arch Bishop of Sweden Antje Jackelen, artist David Buckland and scientist Andrea Nightingale and Climate Change Leadership-professor Doreen Stabinsky. More info about the conference can be found at: www.climateexistence.se

Regional Centre of Expertise, RCE Uppsala

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www.rceuppsala.se

RCE Uppsala is a platform coordinated by CSD/CEMUS for collaboration between academic and non-academic institutions and organizations on transformative learning for sustainable futures. It is a problem-based platform that aims at providing practice oriented and research connected common frames of reference for innovative, transformative and collaborative education for sustainable development, ESD, initiatives in the region. <http://www.rceuppsala.se/>

Vision of the RCE

RCE Uppsala's vision is to contribute to sustainable development in Uppsala by working with projects and with learning processes that provide:

- Increased opportunities for democratic participation in processes related to sustainable development in the region, with a particular focus on youth and young adults, to enable the younger generation to influence the future they will live in.
- Improved social equality and greater quality of life for the regions inhabitants, while the regions' ecological footprint is reduced. In that way RCE Uppsala is contributing to the fulfilment of both local, regional, environmental and global sustainability goals.
- Education for sustainable development that influence both formal and informal education and learning in the region.

Leadership and governance structure

The RCE is coordinated and managed by CSD/CEMUS and has one main coordinator working 20%. 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.

The present Steering Committee (SC) is the main decision-making body of the RCE. This is made up by representatives from all key regional partners. To date, the SC has been decided upon and will be re-evaluated in September 2016 to include other partners.

The SC have meetings 4 times a year and decide on long term strategic and practical issues, including project RCE-approval, new RCE partners and large scale collaborations.

The coordination and management of the RCE is set up in a way so that resources needed for coordination is held to a minimum. Any resources put into the RCE should first and foremost be directed toward projects and activities, not administration and bureaucracy.

- Management of the RCE must be inclusive and done in an intergenerational manner, including a high level of student participation.
- Management of the RCE (and therefore also partners within the RCE) must be transboundary, including representatives from local and regional decision makers, members from university faculty as well as local businesses/NGOs and civil society.

List of core partners within the RCE

The following partners are included in the network:

- CSD, CEMUS and BUP at Uppsala University and SLU
- Folkuniversitetet
- SWEDESD at Uppsala University
- The Department of Education (EDU) at Uppsala University
- Uppsala municipality
- Knivsta municipality
- Competence Centre Uppsala (KUPP)

Changes 2015-2016

The region of Uppsala has been certified as an RCE since 2013. Since then the Uppsala network has initiated activities connected to Uppsala University. 2013 Gotland University joined Uppsala University and became Uppsala's twelfth campus. To benefit from the already existing collaboration between Uppsala and Gotland, RCE Uppsala will apply for the region of Gotland to be part of RCE Uppsala. The new name for the network will be RCE Uppsala - Gotland.

The short term objectives 2015

- To develop a web based RCE information platform and a newsletter for sharing information. A web-based platform was established in June 2015. The web page is constantly developed with new updates and projects.
- Develop the new governance administrative structures where partners' rotate in hosting meetings. We will also establish routines for decision-making and a good meeting structure.
- Establish formal and joint criteria for projects with RCE Uppsala - Gotland status.
- Identify and develop long-term objectives, commitments and corresponding strategies for implementation.
- Include more members in the SC such as students and NGO:s.
- Initiate new projects within the framework of Uppsala – Gotland.
- New Vision, mission and governance structure – a new vision and mission for RCE Uppsala was established in September 2015. The same month the governance and administrative routines for the SC was decided, where a coordinator from CSD Uppsala coordinates RCE Uppsala and call for meetings with the SC 4 times a year. The SC are responsible for decisions, initiations of activities and communicates the RCE Uppsala work. The coordinator is responsible for the web page, communicates the RCE-work and connects partners within the network.

Long term objectives 2016-2017

- Identify and obtain internal and external sources for funding of key projects.
- Develop connections to other national and international RCEs.

Outreach and projects within Uppsala University

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Matariki Global Citizenship Program

The Global Citizenship Initiative within the Matariki Network of Universities gained further momentum during 2015. A first 3-4 day workshop was decided to be held in April 2016 in Uppsala with the ambition to develop a global citizenship program within the network around the two strands of “empowering learners” and “community engagement”(see appendix F). All 7 universities in the network have expressed an interest to attend the workshop by sending a student & faculty delegation. The Vice Chancellor of Uppsala University approved a proposal for funding from CEMUS to plan, run and follow up the first workshop (see appendix G). Isak Stoddard from CEMUS/CSD travelled to Otago University, New Zealand in February 2016 to

present the Global Citizenship Program to the Executive Board of the Matariki Network and to build further ties with faculty and students at Otago.

More info at: www.matarikinetwerk.org, <http://rektorsbloggen.uu.se/> and see Appendix F: Invitation to join Matariki Global Citizenship Workshop, and Appendix G: Vice Chancellors Decision for funding.

Collaboration with UU innovation

CEMUS has had an ongoing dialogue with UU innovation during 2015 around different ideas for collaboration. Acting Program Director (Isak Stoddard) held a presentation about CEMUS/CSD at a UU innovation staff meeting early in the year which has been followed up with a number of meetings discussing potential collaborative activities. This has resulted in an agreement to run a first workshop in April 2016 for staff at CEMUS and UU innovation exploring both synergies and possible contradictions between innovation & sustainability (and in extension UU innovation and CEMUS). Could potentially lead to larger co-organized event such as a conference in 2017.

Den Goda Staden at Uppsala University

Acting Program Director at CEMUS (Isak Stoddard) contributed to the project “Den Goda Staden” as a work group member. Special contributions involved concept development of the student competitions “Our Good Campus” and moderation at the full-day conference “Hållbarhet för alla”. More info at: <http://www.uu.se/den-goda-staden/>

Sustainability Hub

Students and staff at CEMUS are developing an idea for a student-led, faculty supported Sustainability Hub at Uppsala University (inspired partly by the Green Office Movement) focusing on creating a more sustainable campus, but with the possibility of also identifying and responding to other sustainability challenges within the universities core activities of higher education, research and outreach. A concept note is currently being developed in communication with the Environmental Coordinator and other key actors.

CEMUS wins The Uppsala Peace Prize in the category Sustainable Development 2015

För sitt långvariga och gränsöverskridande arbete för att främja kunskap om miljö- och utvecklingsfrågor tilldelas CEMUS Uppsala Fredspris i kategorin hållbar utveckling. CEMUS har under sin verksamhetstid särskilt utmärkt sig för sin förmåga att skapa ideellt engagemang hos studenterna och för att engagera lokalsamhället i frågor som rör hållbar utveckling. CEMUS resa från studentinitiativ till internationellt erkänt universitetscentrum inspirerar och visar hur hårt arbete och engagemang kan ge ringar på vattnet, även långt utanför Uppsalas gränser.

