



STRÖMSTAD AKADEMI

Nordiskt institut för avancerade studier

Newsletter, June 2022, international edition

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Editor's corner

E_d_i_t_o_r'_s_c_o_r_n_e_r: Anders Gustavsson

Surgeon and Chairman of the Board Peter Fritzell informs about current events in Strömstad Academy.

Vice-Chancellor and Information System Scientist Per Flensburg informs about current events in Strömstad Academy. He refers to the discussions at the Science Festival about the future of Strömstad Academy.

Educator Åsa Morberg has been elected new Chairman of the Board of Strömstad Academy from 1 January, 2023. She has written a self-bio and also discusses the problem with the large turnover of teachers in Swedish schools.

Physicist Ari Lampinen makes an analysis of climate development over the past fifty years and takes his starting point in the international conference Stockholm + 50 in June 2022 in Stockholm.

Economist John Fletcher held a webinar on 15 June entitled "On removing the walls around our Swedish ghettos - and on the will to do so".

At the Nordic Ethnology and Folklore Conference on Iceland 13-16 June **ethnologist Anders Gustavsson** gave a lecture on "Rediscovery and Transformation of Traditional Rituals within a New Religious Movement in Sweden: The Oasis Movement".

Pediatrician Gudmund Bergqvist reports on psychiatrist Lennart Wetterberg's lecture at the Science Festival on Fetal Alcohol Syndrome.

In a seminar at Marston Hill in Mullsjö on 7-8 May 2022, seven of Strömstad Academy's members participated. The discussions concerned migration, a future methodological anthology, and the future of the Academy.

Redaktör: Anders Gustavsson

Layout: Per Flensburg

On 28 June, Strömstads Tidning published a summary report on Strömstad Academy's Science Festival 20-23 June.

I want to urge a previous call for all members to verify and complete their personal information on the Academy website. Also try to recruit new members to the Academy, not least young scholars. Please, send suggestions to Vice-Chancellor Per Flensburg per.flensburg@stromstadakademi.se

I wish new contributions to the July issue 2022 of the Newsletter sent to my e-mail address with deadline on 27 July 2022: anders.gustavsson@ikos.uio.no. Send short articles, opinion articles and/or reviews of new scientific literature. Swedish contributions should have an English translation. **OBS: Texts should be in Word- or OpenOffice format!**

Please, also send contributions to the Academy's publication series Acta Academiae Stromstadensis, AAS, and the video series SAV to the e-mail address: gudmundbergqvist@hotmail.com

Chairman's report

Colleagues in Strömstad Academy

The Academy's Annual Meeting was held on 20/6 in Strömstad City Hall, and was followed by the Science Festival in Strömstad on 21-23/6. The science program was, as usual, very interesting! Thanks, Per and Anders, and thanks of course especially to all presenters! And further, thank you to all the members who participated in the subsequent discussions about the future of the Academy!

The future of the Academy is a topic that has been discussed continuously, and not least during the past year. As usual in an interdisciplinary assembly, the discussion has been based on different perspectives and points of views - and subsequent proposals.

The most important thing, in my opinion, is that there are suggestions, and that in parallel there is a humbleness to strive to understand each other about how these suggestions, after relevant impact assessment, can be realized. It is therefore important to compose the proposals in a constructive way based on the Academy's conditions!

I would also like to point out the importance of reflecting on the lectures that our members presented during the science days. These can be found, when everyone has submitted their presentations, on the Academy Website (<http://stromstadakademi.se/wp2/>) under the tab "About the Academy", and represent scientific international cutting-edge knowledge in various subjects!

The Academy's scientific productions via, for example, AAS, Video Series, Working Groups, Local Chapters, etc. continue to be made available, both to the public and various professions. The invaluable scientific potential that exists in Strömstad Academy, for all different target groups, is clarified here.

The economy is, and has been, an important issue over the years. How should we be able to reimburse members to continuously present a Website, produce scientific articles, travel, housing, various research projects, etc., etc. Following discussions/proposals during the meeting in Strömstad, a working group has now been appointed to work specifically on applying for grants to Strömstad Academy. This is very interesting/gratifying!

This year, the annual meeting elected new members of the Board, and we in the outgoing board warmly welcome our colleagues to continue to pursue the Academy's goals/objectives!

All new members are also warmly welcomed!

In conclusion, I would like to point out that all new projects should include a relevant impact assessment.

All the best Peter Fritzell

Vice-Chancellor's report

Now the Science Festival 2022 is over and I can breathe a sigh of relief and think about well-deserved holidays. The comments reaching me have been overwhelmingly positive and that is gratifying. There were 28 reported participants but some got sick, relatives died, cars could not be obtained so there was a certain loss. At dinner, we were 23 registered, but someone sure did not show up. The concert on Tuesday night filled almost the entire church and it was divine! I did not know that so many people could sing different parts so that it sounded like all in one single person. But both the choir (Gothenburg Chamber Choir) and the leader (Gunnar Eriksson) are world famous. And the church was almost full! There were even lots of people in the front row!

In other respects, I noted that the subjects that attracted the most external participants were medicine and illness. We should have a special theme on this topic in the future. To top it all off, two presentations were sabotaged due to problems with my file transfer. I had Bode's story about what non-farm workers did on Orust in the 20's in my dropbox, but nothing in Bode's folder could be read! However, I have figured out why. My own presentation at home on my large computer was exactly where it should be, but it turned out to be a completely different file in Strömstad. We will post both presentations in our video series, do not think that you will get away with it!

After all the turbulence, we had to make a revisiting of sorts and for that matter we would start the whole festival already on Monday afternoon with some kind of brainstorming on the theme "Strömstad Academy's future" and the idea was that it would be discussed throughout the festival and we should sum it up on Thursday morning at the end of the conference. The results of this exercise are reported separately. However, I have probably missed a lot because my hearing aids and the sound system on Skagerack do not fit together at all. There was a lot of bass and a lot of "mess" so I did not hear much. Therefore you must help me to fill in. Bodil Frisdal had already started a discussion about the future, the Academy's goals and purpose, online, so the question was quite well prepared.

The problem, however, is that so few came to our meeting. According to the Pareto distribution, however, 20 percent of the people account for 80 percent of the work, so it fits quite well, 20% of 120 is 24 and that's the number of active people in our Academy. We behave completely according to norm. But on the other hand, attending the Annual Meeting should be included in the remaining 80%, one would think. But it is clear that marketing must be improved, not least in Strömstad. Fortunately, we have a new, enthusiastic member, Sveza Filipova, who lives in Strömstad and has an extensive network of contacts. There should be more visitors from Strömstad next year. It was actually the first time I was involved in arranging a conference at Skagerack, so now I have learned a lot and made some personal contacts. Next year it will be easier. We will also create a bigger organization committee as have been suggested.

Speaking of next year: An important point of discussion is the time for the meeting. Traditionally, it has been the week before midsummer, but many of the members have a lot of activities going on at that time and cannot come. I received many emails about it. Bodil Frisdal sug-

gested the week after midsummer, but we were met by a joint response from Strömstad's residents: In July everything is booked in Strömstad! Forget it! Remains to have the meeting in early June or, as last year, in the end of August. At the beginning of June, students are graduating from highschool and are expecting grandparents to join the celebrations. In August, we may connect part of our Science festival to the fall start of school and teacher training. There is usually an in-service training day and we can gather some interesting school related topics. I will send out a survey on this.

But before that, a lot of water will flow under the bridges and right now I think we should use this water for swimming. When we came home from Strömstad, our pool was a 28 ° warm! My friends, enjoy, relax, gather strength for the fall and take a single malt to feel better! But only one!

Below is a picture after the installation of new members. Everyone said "Cheese" except the Vice-Chancellor who preferred "Cheesecake". I will post more pictures on our website as I did last year. I did not take many pictures myself, but others took all the more. Feel free to send me copies and I will post them on the website. And feel free to look at the pictures from last year. They bring back many fond memories.



Åsa Morberg: Presentation of new chairman

Presentation of Åsa Morberg who was elected new chairman for 2023

Åsa Morberg

Do you know what you are getting yourself into when you are elected chairman?

Yes, I think I know that. I have extensive experience of presidencies. Of course, I still feel humbled before the term of office as chairman. All academics are critical thinking, independent and consequently difficult to handle and see administrators as "something necessary evil". They will provide challenges in the mission. I like challenges. Trust that I can handle the task. To be chairman is to cooperate. I am considered to be decisive, knowledgeable, driven, democratic, but at the same time fearless, tough and absolutely not afraid of conflict. As a former head of department, education leader, head of academy, chairman and former President of ATEE in Brussels, I believe that I am also competent for a chairmanship - and then I mean, in addition to planning, managing and executing, also to initiate development work.

Why Strömstad Academy?

I am filled with admiration for Lars Broman and others who started Strömstad Academy. It is a fantastic job done; it was a very good initiative. I joined as a member in 2011. Strömstad Academy is a blessing for academics who have left the academy for various reasons or simply been fired. As chairman, I really want to contribute to moving Strömstad Academy forward in a direction that we decide on.

Who are you, Åsa?

I was born and raised in Sandviken and live there now. My parents both had presidency assignments, so I had a kind of private presidency school in my home. I have worked in higher education a full career, over 50 years as a teacher, researcher, administrator (including several periodic presidencies) and manager / leader. I have been responsible for subjects, education leader for teacher education, head of department, sector responsible for the teaching sector and responsible for developing the university's research and education strategy. I have been prefect, ie. elected by colleagues and for the most recent assignment I was "headhunted" as head of the academy, ie. Head of Academy for the Academy of Education and Economics. AUE consisted of economists, social scientists, humanists, educators and didactics, as many as 200 people. I have also been Vice President and President of ATEE, the Association of Teacher Educators in Europe based in Brussels for six years. Partners and clients were the EU Parliament and the EU Commission. I also have the following on my business card: author, debater, lecturer, mentor, coach and project manager. I am well versed in the academic world - both nationally and internationally. I have been President of the Association of Teacher Educators in Europe and am still a board member of The World Federation of Teacher Education Associations (WFATE) based in the United States. I have a great interest in international work and I have good opportunities for international connections through all my networks. I speak and write English without difficulty but always want language reviews of native speakers done. Has been an exchange teacher at the Primary Center in Manchester at the university, for example. I am not an economist but have attended many courses in financial management. I have been responsible for SEK 150 million, for example, and larger amounts in ATEE in Brus-

sels. I can and do know what is good association practice and I have a knowledge and understanding of association practice.

And now you have become chairman of the board of Strömstad Academy?

Yes, I have been interested in the presidency. I have had to deal with many good chairmen, but also some completely abysmal chairmen during my life. It is through these chairmen that I have taken inspiration and support for my own chairmanship, both good and bad chairmen give something to think about and learn, but above all to learn from. The assignments as chairman have given me a lot and it has usually been fun and educational. Challenging!

How do you see your chances of success as chairman of Strömstad Academy?

I know what resource is in a group, if it is well managed and what a waste if the opposite is true. When an organization is facing change, a board with a chairman is needed that can take advantage of everyone's opinions to counteract energy leakage, rumors and a bad environment. One must capture everyone's views and suggestions. It's gold worth knowing that you get the opportunity to present your opinion in a confidential atmosphere when it swings, and the answers about the future do not yet exist, I know that, and so I want to work. Oh, there is such dynamism in Strömstad Academy! To be determined once, when I know what is the best solution based on my experience. Other times be responsive and listen to good advice. I will initiate various assignments. Wise, thoughtful chairmen surround themselves with good people and realize that they do not know everything themselves. I am a social scientist and need to be supplemented at Strömstad Academy with advice that has other skills. For example, I will work for getting a deputy secretary. Then I perceive that what we on the board have to work on is to develop the psychosocial environment for everyone in the Academy. A lot can be improved with organizational changes and clearer job descriptions, but it is also important that we work with academic culture. It should be fun to work, no master suppression techniques on our board! Not in academia either.

Gudmund Bergqvist:

About Foetal Alcohol Syndrome (FAS)

Gudmund Bergqvist

In his lecture at this year's Science Festival days, Prof Lennart Wetterberg talked about Fetal/Foetal Alcohol Syndrome, i.e. the damage that the unborn child suffers due to the mother's intake of alcohol during pregnancy. The syndrome includes malformations and mental retardation. It causes great harm to both the victim and his family as well as significant costs for society! Prevention i.e. preventing pregnant women from ingesting alcohol should be a goal! Those present at the lecture voted unanimously for us to spread knowledge about the problems. One way could be for alcohol products to be marked "Should not be taken by pregnant women. Causes severe damage to the fetus". Several countries are considering this.

Lennart Wetterberg's lecture will be posted on the video series.

Per Flensburg: The future of Strömstad Academy

The future of Strömstad Academy

Per Flensburg

An important point at this year's meeting was a discussion about the future. It started immediately after the annual meeting on Monday with a form of brainstorming, which I have structured below under a few headings.

Goal:

1. Fight ageism
2. Conduct interdisciplinary projects
3. Give senior researchers the opportunity to continue their research
4. Have fun together
5. Be independent and self-sufficient

Means:

Fight ageism

- Debate articles
- Interviews in the media

Conduct interdisciplinary projects

- Write anthologies
- Conduct projects
- Give courses
- Public lectures

Give senior researchers the opportunity to continue their research

- Publishing anthologies
- Publish a scientific journal in interdisciplinary research
- Attend conferences with SA as an affiliate
- Publish in journals with SA as an affiliate

Have fun together

- Arrange meetings, conferences and webinars

Be independent

- It's about the economy, if we get a grant it is usually associated with other strings attached
- Grants we receive must be related to the Academy's administration

An important prerequisite for achieving our goals is that we shall

Be noticed, get known

- Always state SA as affiliation
- Produce with high quality without making a fuss
- Write debate articles
- Comment on debate articles
- Make posts on social media

Collaborate with other organizations

- The Immigrant Institute
- Strömstad municipality

SWOT analysis

We did not make a regular SWOT analysis, but indirectly the following points have emerged at meetings and in conversations during the festival.

Our strengths

- Independent, impartial and neutral
- We offer Sweden's most experienced researchers to continue their research at Strömstad Academy
- Efficient resource utilization
- Can act quickly on current events
- Writes its own rules independently of regulations for public organizations
- We are probably Sweden's most competent and interdisciplinary research institute

Our weaknesses

- No administration
- Only membership fees as income
- We are quite unknown and have a hard time making ourselves heard
- Fairly low IT skills

Our opportunities

- Increased collaboration with Strömstad municipality and its business community
- Become known debaters in the press and mass media
- Start an interdisciplinary journal that gets a good reputation
- Get funds to hire an administrator
- Recruit people who are forcibly retired from college and university

Threat to us

- Many members leave the Academy due to age, illness or dissatisfaction
- Our titles cause us to be accused of just handing them out
- Some member does something stupid that spills over to Strömstad Academy
- Our finances are getting so bad that we have to dissolve the association
- Our publications are not published in DiVA

What can we do?

On Thursday morning we had a follow-up discussion and many interesting ideas came up. Unfortunately, my hearing aids and Skagerack's microphone were not in sync at all, so I did not hear much. Therefore, I want to ask everyone who was involved and feels overlooked to email me and convey your ideas. We will then construct a development plan for Strömstad Academy, which we will discuss in a future member meeting.

Every year, approximately 500 academics are forcibly retired in Sweden. From these, we should be able to recruit at least 100 and give them the opportunity to continue their research in Sweden's broadest, most experienced, and competent research institute. The problem is to reach them and to describe Strömstad Academy in a sufficiently attractive way. As the slogan was mentioned: Each one, bring one, ie each of the members must recruit another. A variant

was also presented: Each one, bring one young, ie one should try to recruit even younger researchers. Senior researchers should be informed that they now have the opportunity for independent research! In a multidisciplinary environment. We can offer: publishing, lectures, webinars, conferences, feedback and stimulating discussions. I think our publishing business is very important and we should be able to expand it, even get it to generate a decent surplus.

What counts in today's scientific society is the number of citations. We must therefore show that our publications are quoted and a prerequisite for this is that we state Strömstad Academy as an affiliation. We should have a better idea of how the bibliometric systems work so we can use them more optimally. Everyone else does. DOI affiliation can play a certain role as well as registration in DiVA. University West will unfortunately stop registering our AAS publications in 2023, so we will have to find other ways.

We also talked about the fact that Strömstad Academy members could become assistant supervisors for doctoral students at other universities. However, I thought it would be difficult as supervision of doctoral students is meritorious and the higher education institutions are keen to allow their own doctors and associate professors to have the opportunity to merit. But some of those present could imagine being assistants. The problem is to make it known.

A lot of time was spent discussing money. The Heritage Fund came up as a possible financier, but they only finance investments and not operations. We would need to fund an administrator position and remunerate some assignments in the Academy. We could ask one of our billionaires if they could think of setting up a fund that can finance part of our business. A group was formed consisting of John Fletcher, Sveza Filipova and Thage Tagdae who would apply for money. John is the convener.

The question of whether we should write in English or Swedish was raised and the simple conclusion is: Both! It all depends on which forum you turn to. For example, we have a publication in French in our AAS series (AAS-21).

We also talked about supplementing the local groups with subject groups. However, we have about 90 different subjects in the Academy, so there should probably be a gathering in more extensive groups, e.g. economics, medicine, behavioral science, technology, solar energy, climate, etc. Right now, computer science is the largest group in an established subject (4 if I remember correctly). Subject groups, however, are somewhat against our idea of interdisciplinary.

Concerning local chapters, the question came up about local activities. Some of these get started so slowly, Gothenburg has been most diligent with webinars about every fortnight, but Falun is well on its way by collaborating with the Senior University. Not much has happened in Lund / Malmö, but there should be potential. We could have a meeting there. The problem is Stockholm / Uppsala where there is no functioning local chapter since the Hultman couple left the Academy. In Strömstad, things have also been slow, but we have at least established cooperation with the association Fossilsnålt Koster. There are good chances for a change with an energetic Sveza Filipova!

Someone came up with an idea for sister associations abroad. I have received information that in Denmark there may be an interest in some form of cooperation / merger. We can develop these ideas later this fall.

I had an idea to offer paid courses to the business community. After all, fairly simple management courses are offered, for example by Excel, for many thousands of SEK. We could offer interdisciplinary courses in problem solving, leadership, etc. But it requires quite a lot of work

and the course must be extremely clear and structured. Three people said they were prepared to give such courses.

The collaboration with Strömstads tidning could be expanded. One such example is that we receive requests about what our monthly chronicle should be about, right now we independently decide this. But also debate articles could be published there.

Areas where we could make direct contributions to Strömstad municipality are for example preparation for the next crisis. Historically, Strömstad has been exposed to a number of crises: the stone industry, Facit's calculators and most recently border trade and the pandemic. The Academy has expertise, both in history, ethnology, psychology, economics, systems theory, etc. that can jointly analyze both what is happening and what has happened and prepare some kind of action plan in preparation for the next crisis. This could be generalized to a general model for collaboration between municipalities and research institutes. A concrete example of such a collaboration can be the issue of village schools, where Strömstad Academy can make a deeper, independent and more complete analysis than other actors.

Åsa Morberg: Teachers change jobs

One out of four teachers change jobs every school year - teacher turnover is a major problem for students, parents and schools

By Åsa Morberg, Associate Professor

New and alarming information comes from Swedish Radio's new study of teacher turnover. It is important to shed light on teacher turnover and Sveriges Radio's survey provides new information on the current situation for teacher turnover.

What does teacher change really mean for students? Changing teachers can have major consequences. Everyone who has changed teachers at some point during school time knows this. Maybe it is the weak students who are worst affected? But of course all students are affected. There are examples of students who changed their mentor several times during, for example, the intermediate stage.

Through its study, SVT can now show how extensive teacher turnover really is. One teacher out of four teachers change jobs every year. Half of all teachers work a maximum of three years at the same school unit. There are municipalities that have worse results. Nordanstig municipality, for example, loses every other teacher.

Here, there has been a change over time. In the past, it was very unusual for teachers to change jobs. Many teachers remained in their first jobs for the rest of their careers. Since there have been regular teacher surpluses, so during these periods that have occurred at regular intervals, teachers have remained still on their positions. It has simply not been possible to change.

Teachers have sometimes left a position for further studies, but have then returned to the profession with expanded competence. During the next teacher surplus, this will change. Large teacher turnover is something that the school inspectorate has opinions about. The students who have special needs are the most affected, because they need to have a predictable and safe teaching situation. The Swedish Schools Inspectorate believes that frequent teacher changes have consequences for students' learning, for work ethic in the classroom and for fair grading. Of course I agree with that.

The Swedish Schools Inspectorate says that teacher changes can actually cause incorrect grading if teachers have not ensured that the documentation of students' study results is good. Teachers may then rely on the grades from previous years. Teachers can also overestimate their own data. Relationships between children and adults may also suffer. Students do not trust their teachers for fear that they may actually disappear.

What is missing in the Swedish Radio's study is information about what the teachers have been doing after they dropped out. SVT can also not say anything about why they actually chose to resign. It is said that there are two main reasons, and these reasons are: poor working environment and poor pay in that order. Since the shortage of teachers is great, teachers really have power over their work situation and the labor market is the teacher's. In a situation with a surplus of teachers, these job changes would not have been possible.

The frequent teacher changes have consequences for the principals. How can this situation be changed for the benefit of the students? Among those who leave, of course, are some who change professions. There are many places that actually employ teachers for tasks other than teaching. Then, of course, there are those who choose a more attractive workplace, both in terms of salary and work environment!

The work environment for teachers, as well as teachers' salaries, is something that both the Teachers' Union and the National Union of Teachers work intensively with. If the teachers' trade unions merge, the demands will be even stronger on improving the teachers' working environment and salaries. It is said that there are two problems, the work environment and wage setting, which cause the high teacher turnover.

Fixing these problems will cost money, but not fixing them will cost even more. The wage issue is easier to solve than the work environment issue. There are many measures that can provide a better working environment, for example: Teachers need relief, through support staff and improved administrative systems. Local review of both classrooms and workrooms and conference rooms is needed. There are professional specialists in the work environment area, and the principals should of course use them. A well-functioning vocational and workplace introduction is also important. All work environment initiatives must be systematic and long-term. It is also important to follow up and evaluate work environment initiatives.

Ari Lampinen: Scientific analysis of UN Stockholm+50: AEGE

Scientific analysis of UN Stockholm+50: AEGE

Ari Lampinen

1. Introduction

The UN Stockholm+50 intergovernmental conference and related events for the general public were organised in Stockholm in June 2022 by decision of UNGA (i.e. the highest UN body) exactly 50 years after the first UN environmental summit was held in Stockholm in June 1972, also organised by UNGA decision. The first UN environmental summit in Stockholm in 1972 initiated UN global environmental policies in general, where starting environmental treaty processes was the primary objective. It included great practical direct achievements as well: (1) creation of UNEP as permanent UN environmental policy and science body, and (2) complementing it by establishing WED as environmental education outreach for the general public globally.

The Stockholm+50 conference celebrated and reviewed five decades long UN work in global environmental issues. It was described in general level for SA fellows of all fields of sciences in SA Newsletter 6/2021 and 3/2022 articles by Ari Lampinen in both Svenska Nyhetsbrevs and English Newsletters to make sure this information reaches all SA fellows, because all SA fellows living in Sweden and nearby had outstanding opportunity to attend these events. Stockholm+50 included intergovernmental event at Stockholmsmässan 2-3 June, but large majority of events were organised for the general public in Stockholm and all over Sweden. And these included by far the largest technological demonstration of all time in history of UN conferences, and therefore it was very hard for people living in Sweden to completely miss existence of this event.

Stockholm+50 reviewed UN global environmental policy achievements since the very beginning in Stockholm in 1972. These include many successes, of which the ozone layer problem is the most significant, and many failures, of which the climate change problem is the most significant, and large amount of other environmental issues with varying degree of success.

This article does not cover all global environmental issues, of highly different success rates, that UN has since 1972 worked with and that were reviewed during Stockholm+50. While recognising large amount of UN successes, this article concentrates on the greatest UN failure, the climate change. The climate change problem was part of the program of the first UN environmental summit in Stockholm in 1972, and after it plenty of UN actions have been initiated, especially the UN climate treaty (UNFCCC) negotiated during the second UN environmental summit in 1992 in Rio de Janeiro. The UNFCCC is practically relevant to SA, because in 2009 SA was admitted as observer organisation to the UNFCCC process, and therefore all SA fellows have since 2009 had opportunity to take part and influence this UN work - and only this, as SA does not have observer organisation status with any other UN processes.

2. Physics

The climate change problem became scientifically resolved in the 1960s after over century of physics research, which was especially well explained by the Nobel committee when awarding Nobel Physics prizes in this field in 2021 (as described by Ari Lampinen in SA Newsletter 10/2021). Both natural greenhouse effect (studied since the first physics paper by Fourier in 1810s) and anthropogenically enhanced greenhouse effect (AEGE), simplified for the general population as climate change problem (studied since the first physics paper by Swedish Nobel laureate Arrhenius in the 1890s) were scientifically confirmed simultaneously after receiving the very last piece of required evidence, i.e. the high resolution IR spectra of outgoing Earth radiation by satellite measurements above atmosphere in 1969.

When this anthropogenic environmental problem (radiation imbalance for physicists and climate change for others) and its physical cause (greenhouse gas emissions) became scientifically confirmed, technical solution to the problem became clear as well (like is the case with almost all environmental problems, i.e. when scientific explanation is found, technical solution for the problem becomes known at the same time). Technical solution to this problem was well known to physicists in the 1960s like it is to physicists today. Shifting from fossil fuels to renewable energy

sources was then and is today both technically (in all energy technology applications) and resource point of view trivial matter (i.e. so obvious that no proof is needed) both scientifically and technically. But taking those well known technical solutions into use in societies is outside the scope of physics. Therefore, physicists submitted in 1969 both scientific explanation and its technical solution to UN for solving it politically, and more broadly, from social science point of view.

3. UN failure

This UN effort that started in 1972 by submission of physicists (lead by Swedish physicists) in Stockholm has not only failed to resolve the problem politically, but the problem has increased every single year since 1972 until today as shown in Figure 1. Therefore, it is truly outstanding failure, without historical precedence. Scientifically the problem shown in Figure 1 belongs to the field of social sciences. Solving it is out of scope of physics and other natural sciences.

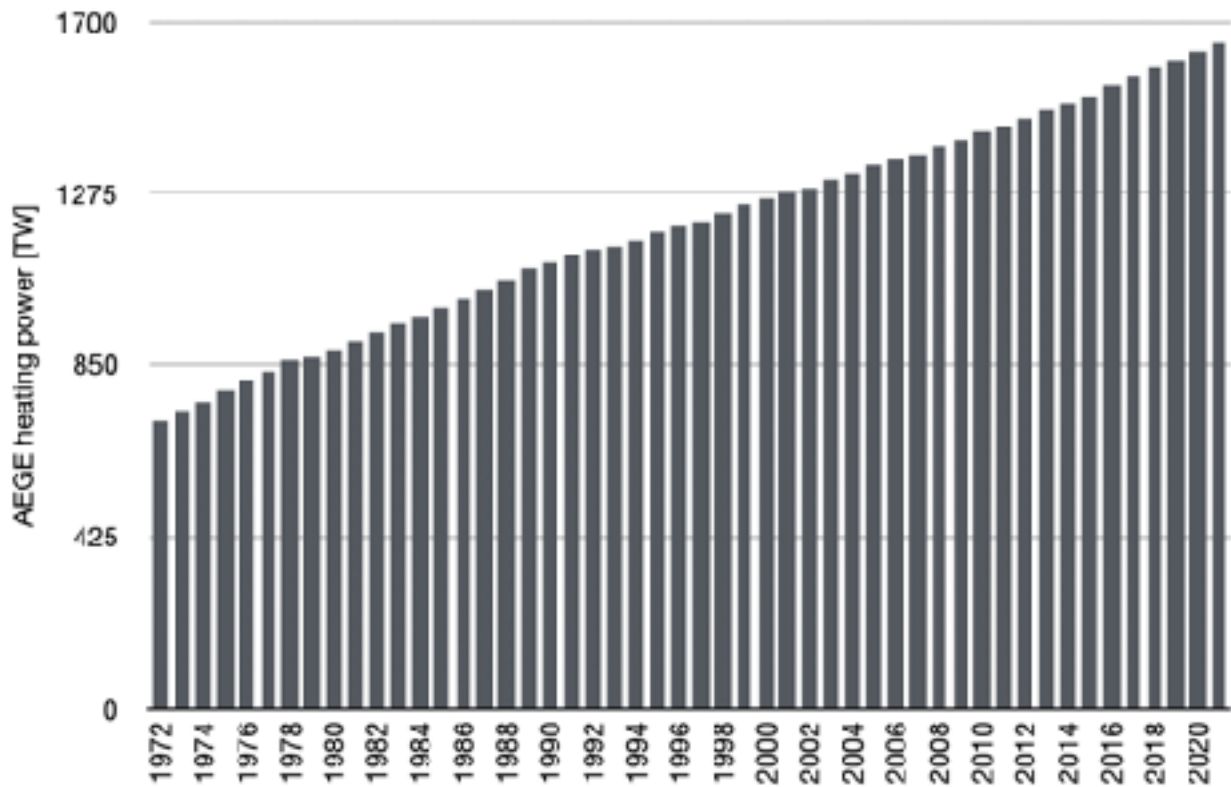


Figure 1. Annual evolution of global heating power of AEGE (anthropogenically enhanced greenhouse effect) from 1972 until 2021. Calculated based on NOAA radiative forcing data.

4. Science

Figure 1 shows abnormal way to describe the problem in the society outside of the Academia, because it is based on the actual physical problem, i.e. Earth energy imbalance. Although the general population still think that the problem is climate change, it is not so scientifically. This problem is in the field of physics, where it means energy imbalance, specifically radiation energy imbalance, i.e. more energy is coming by electromagnetic radiation from the Sun to Earth than Earth radiates to space. This results in net energy increase in Earth impacting not only climate, but everything else as well. Therefore, climate change is not the core problem, but climate is just one of many Earth systems suffering from the true physical problem.

And the anthropogenic mechanism creating this problem is enhanced greenhouse effect, which means anthropogenic addition of greenhouse gases into atmosphere. Svante Arrhenius, physics professor at Stockholm University and Nobel laureate in 1903 was the first physicist to publish peer reviewed scientific article about this in 1896. And the rest is history (of physics

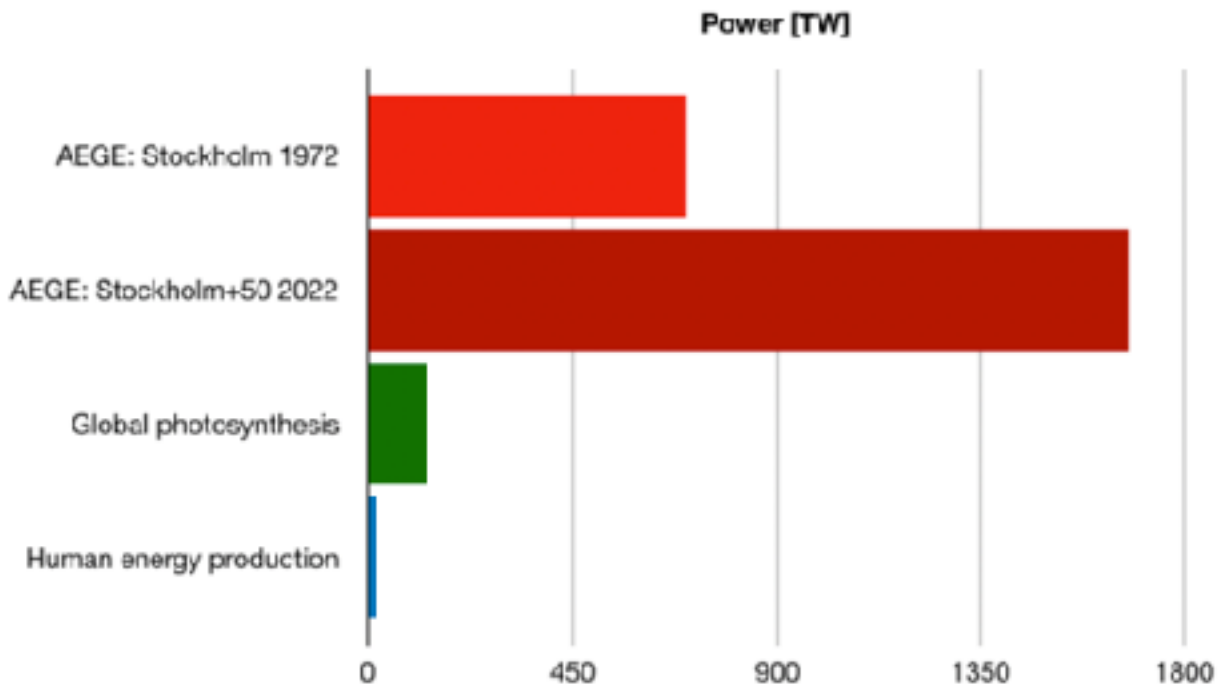


Figure 2. Comparison of heating power of anthropogenically enhanced greenhouse effect (AEGE) with power of global photosynthesis and global energy production power of human societies.

and everything else), as described by the Nobel committee in their scientific review behind work of the 2021 Physics Prize laureates (see SA Newsletter 10/2021).

However, also physicists are forced to use the climate change description when speaking to non-physicists, because it is much easier to do so than to explain that this is just as simple as the energy balance problem that people wishing to lose weight have encountered. From physics history point of view this is truly ancient, as physics of energy balances originates from ancient Greece.

Direct satellite measurements of the radiation imbalance outside of the atmosphere was crucial for scientific confirmation of the problem in the 1960s. But monitoring evolution of the anthropogenic problem is not based on it alone both for scientific and technical reasons. Indicator called radiative forcing was developed for measuring energy imbalance. It is a combination of empirical measurements and scientific modelling, and for scientific modelling of climate change the Nobel Prize in Physics in 2021 was granted (see SA Newsletter 10/2021). Although scientific modelling is needed, the core element of radiative forcing is empirical measurements of atmospheric greenhouse gas concentrations. They can be measured with great accuracy directly in the atmosphere, but due to paleoclimatologic measurements this data is known accurately since the beginning of the current anthropogenic problem in the 18th century (and actually very much further back in history). Superb quality of this data shows that atmospheric greenhouse gas concentrations remained essentially stable for millennia until commercialisation of the coal powered Watt steam engine. For this reason situation before the Watt steam engine was defined natural state showing impact of the natural greenhouse effect. Enhanced greenhouse effect is measured relative to the natural state. Unit of radiative forcing is W/m^2 , but in Figure 1 radiative forcing of total enhanced greenhouse effect has been multiplied by Earth surface area to show total global heating power.

While qualitative nature of Figure 1 is more important than quantitative, as it shows that the problem has increased every single year since 1972, quantitative values are also included to show strength of the problem. Unit [TW] (terawatt, so defined to honour importance of James Watt in history of technology) is very large as it by far exceeds total electric power production potential of the EU.

5. Education

Figure 2 compares power production of AEGE with two other global scale phenomena to help quantitative understanding of AEGE.

Heating power of AEGE in 1972 was about 700 TW. This was created during 200 years of industrial evolution since commercialisation of the coal powered Watt steam engine, which was the starting point of industrial revolution, beginning of current historical era (Modern Era) and beginning of current geological period (Anthropocene).

During the next 50 years from the Stockholm conference in 1972 until the Stockholm+50 conference in 2022 the AEGE increased by about 1000 TW, i.e. 40% more than during the previous 200 years. And as Figure 1 shows, AEGE increased every single year of this 50 year period.

Global heating power of AEGE in 2022 is order of magnitude larger than power of photosynthesis globally (130 TW) and two orders of magnitude larger than energy production power of human societies globally (18 TW). Currently only one technical option is available to humankind for reaching similar power level: nuclear devices. By steady explosion rate current global nuclear arsenal would be capable of maintaining power production level similar to AEGE in 2022 for 2.5 hours.

Report from a seminar at Marston Hill 7-8 May, 2022

Seminar at Marston Hill 7-8 May 2022

The seminar took place from lunch to lunch on 7-8 May and had three items on the agenda:

- A Migration Seminar
- The Anthology on Research Methods
- The Future of the Academy

The participants were:

Jens Allwood
Elisabeth Ahlsén
Gudmund Bergqvist
Per Flensburg
John Fletcher
Cenab Turunç
Peter Währborg (only Aug 8)

e-mail addresses to the participants:

Gudmund Bergqvist <gudmundbergqvist@hotmail.com>, Per Flensburg <per@flensburgs.se>, John Fletcher <john.f.fletcher@gmail.com>, Cenab Turunc <turunc04@gmail.com>, Peter Währborg <peter@wahrborg.se>, Elisabeth Ahlsén <elisabeth@allwood.se>, Jens Allwood <jens@allwood.se>

The seminar consisted of short presentations on the different topics, each presentation followed by a discussion. Below is the agenda. Please contact the participants if you want to see their presentations.

Migration Seminar 7 May

The participants presented their ideas about migration. After each presentation there was a general discussion of the presentation.

1. Jens Allwood - Introduction and welcome
2. Jens Allwood - Migration – an overview
4. John Fletcher – Why young refugees/refugee children lose faith in their future – and about difficulties to improve the situation.
5. Elisabeth Ahlsén - Migration - positive and negative aspects
6. Per Flensburg, Game for transferring Swedish values
7. Cenab Turunc: Different religious groups in the Middle East
8. Gudmund Bergqvist

There was also a discussion about whether we should write an anthology about migration. Jens and Elisabeth will work on the idea. John had a book planned but is not going further with it, right now. We tried to encourage him. Per does not have the means to write a program for a computer-based game on Swedish values (Jens has contacts in Skövde working on game development) but Per will write a number of scenarios in more or less fictional form. Jens identified them as so called “critical incidents”. Cenab is also carrying out some form of extensive information gathering, but Per would also like him to check facts and provide inspiration in his writing.

Seminar 8 May

Summarizing the discussion about migration from the previous day

In addition to summarizing, we discussed the importance of several disciplines contributing to an anthology of migration and the possible necessity of finding more authors external to the Academy. We also discussed not just focusing on problems related to migration, but also presenting solutions to the problems. In connection with this, we discussed the challenges connected to doing this without having to take a stand on what may be controversial political questions. Another problem is how to create more awareness of problems related to other aspects of culture than socio-economic aspects, like beliefs, values, norms etc. since ideas of how to manage these are lacking to a great extent in present day Swedish discussion.

The Anthology on Research Methods

All the material exists except comments and responses to comments from a professor in theoretical physics in Karlstad. It is uncertain when they may come in, but Jens believes that the anthology will be ready some time in the fall of 2022. There was a lively discussion between Peter and Jens about areas of interdisciplinary contention. We also discussed possible new anthologies which in addition to “Migration” could deal with “Emotions” or “Negative aspects of digitalization of societal functions”.

The Future of the Academy

This discussion was not very long but some points came up, which are listed below by Per:

Problems we have/have had:

- The chairman has not reached clear decisions (Per)

- Non-constructive criticism (Per)

The purpose etc of the Academy (group discussion):

- Peter reported that he has thought a lot about the purpose of the Academy and suggested that a group should be assigned to produce this. We agreed that multidisciplinary and being an independent Academy are two important aims.
- Extending board groups: every member should take on an assignment (Per)
- What makes us different from other academies?
- How can we get a maximally “pointed” purpose? (Per)
- What do we require from the members?
- Work group to identify the purpose?
- Free and interdisciplinary academy which counteracts “ageism”
- “Free” means that we are happy to accept money but not orders (Per). It also means that we do not have to be “politically correct” (Jens).

Activities to perform

- Publication of papers, anthologies and other books
- The Academy has to grow, each person should recruit a member.
- Opening up to corporations
- How should we disseminate information about our publications and internet lectures?
- Supporting members become associated members?
- Should we compare ourselves to science academies or to universities?
- Lectures should be national, they can, for example, be about the topics presented in our anthologies.
- Conferences about interesting topics, which also could concern topics which have been treated in previous or coming anthologies.
- “Filosofiska rummet” (radio program), “Vetenskapens värld” (magazine) as instruments for marketing.

Marylou Wadenberg: Activities in AU during second quarter

Summary of activities in the Strömstad Academy Executive Committee/AU during second quarter (Q2) April-June 2022.

Marylou Wadenberg

The Executive Committee/AU consists of Per Flensburg - Vice-Chancellor, Peter Fritzell - Chairman of the Board, Anders Gustavsson – Pro-Vice-Chancellor, and Jens Allwood – Deputy Chair. Marie-Louise/Marylou Wadenberg serves as Secretary of the Board and of AU. The Academy treasurer KG Hammarlund also attends the AU meetings on a regular basis. AU runs digital meetings (GoToMeeting) generally once a month.

The agenda for these second quarter (Q2) meetings has, among others, focused on the following items:

- Review of written Memo from previous meeting
- Board meeting record from March 15, 2022
- Academy by-laws – possible changes
- Ethics. Proposal from Peter Währborg, Sten Philipson and Peter Borenstein
- Annual meeting in June, Strömstad
- The website – updating routines
- AAS, the Academy writing series

- Nominating Committee – nominated new trustees
- Motions for the Annual meeting
- Additional items

General Information:

AU works between Annual Meetings, the highest decision-making authority, with a mandate from the Board, and regularly executes decisions made by the Annual Meeting and the Board. Meetings (during the Q1 2022 mainly being digital using the platform GoToMeeting) start with a brief review of previous written memo. Then items on the agenda are reviewed and discussed concerning what has happened since last meeting and how to proceed. Some decisions can only be made at a Board meeting. In those cases AU works on/prepares these matters for the next upcoming Board meeting. Occasionally joint positions/decisions may be carried out per capsulam by means of a memo from AU addressed/sent to the Board for a decision, or via the Board itself if there was not enough time to discuss this matter at the ordinary Board meeting.

Responsibility, for and being in charge of the different main items on the agenda, is distributed between the individuals being part of AU as follows:

- Per Flensburg holds, together with the Pro-Vice-Chancellor (and in some cases the Chair), the overall responsibility for: planning of the Academic Ceremony, the Annual meeting and the Science Festival in Strömstad; he is also responsible for the website maintenance and layout of the newsletter, and to some extent keeping in touch with the Strömstad Municipality and the Strömstad Highschool. Per also handles certain records (such as the list of members).
- Anders Gustavsson holds the overall responsibility for: planning of the Academic Ceremony, the Annual meeting and the Science Festival in Strömstad (together with Per Flensburg), for lectures, and, within the framework of the Editorial Board, for writing series/anthologies, and for the Newsletter.
- Deputy Chair Jens Allwood holds, together with the Chair, responsibility for Board meetings; and, together with the Vice-Chancellor and Pro-Vice-Chancellor, for Annual meetings. Former Deputy Chair Mariana Back stays on running the Google Drive place with the Academy's documents, and works on the recruitment of members for chronicle writing in 'Strömstads Tidning'.
- Chairman of the Board Peter Fritzell, AU Chair and convenor, holds responsibility for Board meetings; and together with the Vice-Chancellor, Pro-Vice-Chancellor and Deputy Chair, also for Annual meetings. He also keeps a close oversight over the regular agenda items at AU meetings (please see above).

Working Groups (ordinary), such as review of texts written in English (Marylou and John Fletcher), Local Chapters (Bode Janzon), courses (Åsa Morberg, Carl Olivestam), and Koster (Gudmund Bergqvist), in some cases have someone in charge (in parentheses) that is not part of AU. These individuals then most often report to Peter Fritzell and Anders Gustavsson.

The local chapters, Gothenburg and Falun currently being the most active ones, send invitations to webinars on various topics. Video records are posted on the Academy website (<http://stromstadakademi.se/wp2/>) and when appropriate also published in the video series (SAV) and on the Academy youtube-channel.

Important results during this second quarter (Q2) 2022:

In summary: In addition to regular issues, the most important issues for AU this Q2 2022 have primarily been:

This quarter has primarily been dominated by the fact that the current Chairman (Peter Fritzell), the Treasurer (KG Hammarlund) and members of the Nominating Committee all have announced that they will not be available for re-election for 2023. Discussions/proposals around this (proposed new candidates/trustees to these positions) have been filed to the current Nominating Committee. Elections, from a list of individuals suggested by the Nominating Committee, for available trustee positions were held at the Annual meeting on June 20, 2022.

AU/the Executive Committee has also prepared issues and motions for the Board- and Annual meeting on June 20, 2022.

Finally, there have been discussions about:

- how to ensure the website is up-dated on a regular basis (this has not been the case so far).
- whether the Academy needs an Ethics Committee. A preliminary investigation into this has been presented by the working group assigned to this issue, with comments and proposals on how to proceed.
- how members see the future of the Academy – proposed strategies.

Additional issues

1. Members are active providing contributions/chronicles for 'Strömstads Tidning'; presentations posted on social media (Youtube) are also ongoing.
2. Members, for example Rune Wigblad, are active participating in media debates.
3. A number of projects/working groups are active – some of them presented their work at the Science Festival.

AU has in Q2 2022 had meetings via GoToMeeting:

On May 23. However, many issues have been discussed back and forth via email over the two and a half months preceding the Science Festival in Strömstad on June 20-23, 2022.

Marylou has been keeping written memos during the AU meetings. These have been revised by Peter Fritzell and then e-mailed out to the 4 representatives of the AU, and to the Treasurer KG Hammarlund.

Registered meetings have been on a virtual basis (via GoToMeeting).