



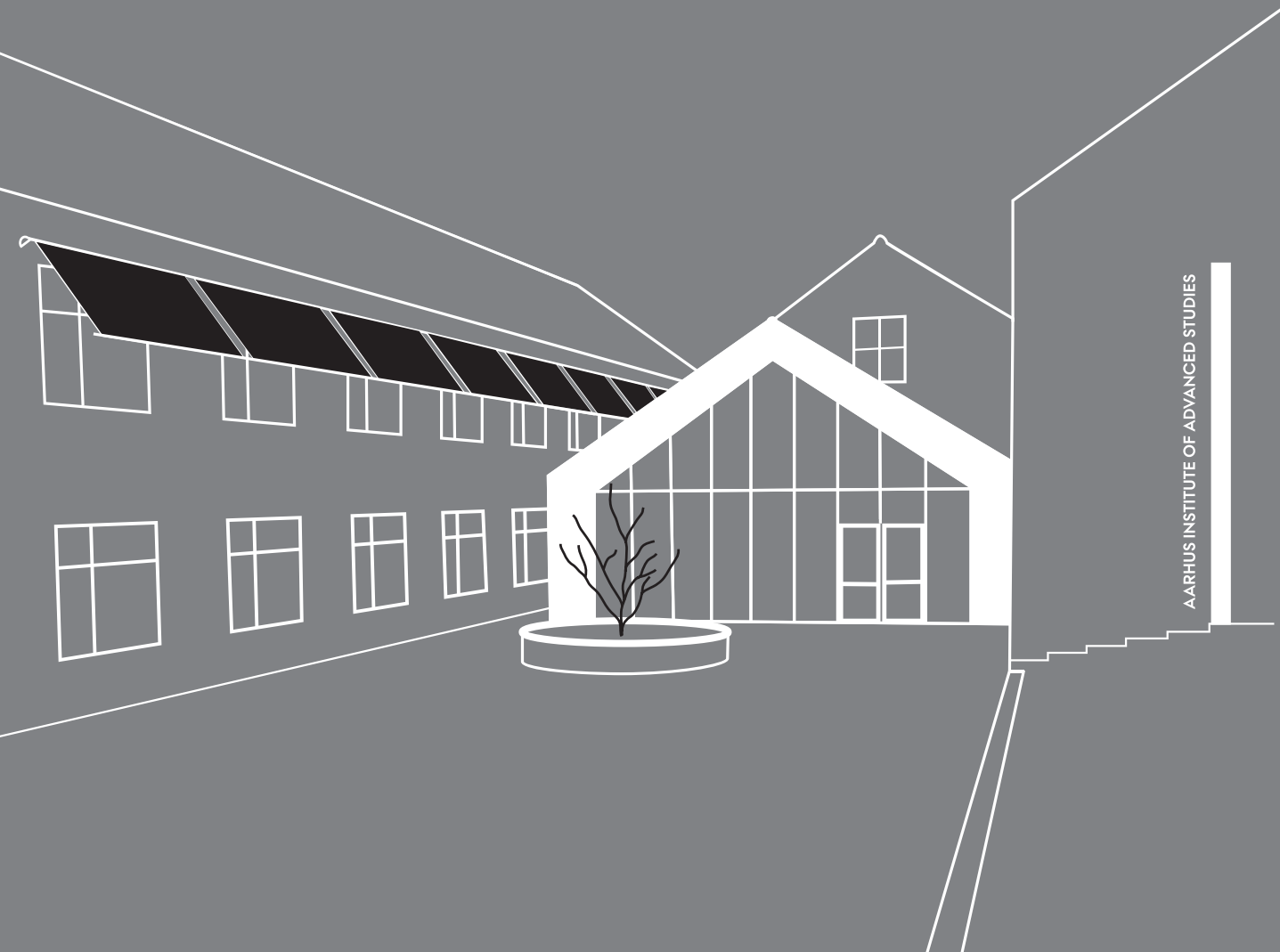
AARHUS
UNIVERSITY

AARHUS INSTITUTE OF ADVANCED STUDIES

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AIAS ANNUAL REPORT

2014/15



AARHUS INSTITUTE OF ADVANCED STUDIES



Photo: Maria Rendina

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DIRECTOR'S ACCOUNT OF 2014-2015

FULL HOUSE, INTERNATIONAL RECOGNITION

This latest year has meant a major leap forward in the process of creating and consolidating the Aarhus Institute of Advanced Studies.

The commencement of the first cohort of AIAS Cofund Fellows, by 1 October 2014, finally brought the AIAS to full operation. With some 30 fellows from all over the world, the daily life of the Institute from then on changed noticeably and turned into a place buzzing with activity and with researchers working around the clock, meeting and discussing with each other. The 'Fellows' Seminars', where fellows present their work to each other on Monday afternoons, became a forum for vivid discussions and interchanges in a whole new way, while also inspiring everybody to think along new paths. To the administration and managing staff the joint commencement of fellows was a positive experience, because it truly enabled fellows to regard themselves as a unified group.

In the beginning of October 2014, we also had the first meeting in the AIAS Advisory Board. The meeting, part of which was attended by Aarhus University Rector Brian Bech Nielsen, included thorough discussions about the Institute's development process so far. This resulted in a comprehensive list of recommendations from the Advisory Board. Its members were very enthusiastic about the project and the accomplished achievements.

From the very outset, we intended to pursue membership of the most prestigious associations/networks of institutes for advanced study worldwide. In October, when being a fully-fledged Institute of Advanced Studies, we felt capable of proceeding with this pursuit. Following a formal procedure, we were invited to participate in the biannual Director's Meeting in UBIAS (University-Based Institutes for Advanced Study), a network comprising some 30 of the world's highest ranking university-based institutes. The meeting was held in December 2014 in Taipei, Taiwan, and we were invited to present the AIAS in connection with our application for membership. After a formal

procedure, including a vote, we were accepted as full members of the organization (whereas in fact applications from other institutes were turned down).

NEW ADVANCED FELLOWS AND PRESTIGIOUS NETWORK EXTENDED

By 1 February 2015, yet another group of new fellows commenced their work at the AIAS, bringing the total number up to 34 fellows. A few statistical facts about the group of fellows of Spring 2015 reveal great diversity in the group: 17 different nationalities, Age span 29 to 75, 19 fellows from the Natural Sciences/Health, 15 fellows from the Humanities and Social Sciences, 18 male and 16 female researchers.

Our latest call for international fellows was closed in the beginning of February. We received approx. 160 applications of 45 different nationalities and found this highly satisfactory. Moreover, the triple peer-review process over the months that followed once again proved the quality of the applications to be very high. At the Selection Board Meeting on 20 May 2015, 12 new fellows were selected to commence their fellowships by October 2015 and February 2016, respectively.

During the first months of 2015, we had approached yet another prestigious network association of institutes; the NetIAS, which comprises 19 of the highest ranking European institutes, university-based and independent as well. The NetIAS includes institutes such as the Wissenschaftskolleg zu Berlin (WiKo), SCASS in Uppsala, NIAS in the Netherlands, CRASSH in Cambridge and FRIAS in Freiburg. As part of the preparations for our application process, NetIAS paid the AIAS a formal visit in March by the secretary general of the organisation, Dr. Olivier Bouin (Paris). In April 2015, we were then subsequently invited to the Annual Meeting of the NetIAS in Vienna to present our institute and our application. According to the regulations of the organization, the AIAS membership was to be recommended by two existing membership institute representatives. In our case Principal Björn Wittrock, Uppsala,

Photo: Morten Kyndrup by Jesper Røis



and Director Bernd Kortmann, Freiburg kindly agreed to do this. After a formal procedure and another vote we were accepted as members of the network. The NetIAS membership is of great importance to the AIAS in terms of international prestige and access to the formalized co-operation between these kinds of institutes. This cooperation includes EURIAS; a joint fellowship programme.

AIAS: 'A COMMON ASSET'

International recognition is of course of core importance for an institute like the AIAS. But it is almost equally important for the Institute to be recognized by and to have good connections with the rest of the university structure in Aarhus, at all levels. Also in this respect, a considerable improvement has taken place over the last year. The AIAS continuously offers to host an extensive number of academic events for partners from inside and outside the university. Besides that, during 2015, we are inviting all the department heads to a bilateral meeting at the AIAS to discuss concrete possibilities and perspectives between their respective institute and the AIAS. These meetings have so far proven mutually fruitful and have also paved the way for interesting new ideas about how

Aarhus University can benefit from the existence of the AIAS and how the important 'hinge' between the AIAS and Aarhus University can be strengthened and further developed. Our heartfelt ambition of being experienced as 'a common asset' by the rest of the university is thus closer to its fulfilment. Among the ideas we aim to pursue in the time to come, could be mentioned that of creating a new category of 'associate fellows' at the AIAS. The idea is that international guests and other employees from abroad, at the highest academic level, should be eligible within such category.

AND STILL ON THE ROAD

No doubt, the AIAS is still in the process of developing as an institution of a kind which has never been heard of in Denmark before. We are aware that we still have much to learn at all levels. During this process, however, it has been extremely encouraging to receive extensive international recognition and a great many appreciative and positive reactions to our endeavours. Above all, the clear vision of the AIAS of becoming a 'classical' institute for advanced study is met with respect and recognition. Seemingly, this consistent vision also had an important impact on the decision made by the European Commission's Marie Curie Cofund programme last year, when the AIAS received one of the most substantial grants of the programme ever: More than €6m (DKK 46m). Needless to say, we are already in the process of preparing new applications and considering future funding sources.

At all levels we will keep on striving to improve our results over the years to come. We are getting positive feedback from the fellows at the AIAS, and their research activities are quite impressive, which is also documented elsewhere in this annual report. Another very visible result of the endeavours is the rapidly increasing number of AIAS conferences, workshops and seminars which are genuine results of AIAS fellows working together, and often crossing the disciplinary boundaries. Crossing boundaries is not a purpose in itself, but when we succeed to do so – as in the cases of the conferences *More than Pretty Pictures* (April 2015), *The Hands of Time – Multiple Perspectives on Aging* (June 2015), and *The Human Condition: Reinventing Philosophical Anthropology* (June 2015) – we cautiously dare to conclude that meetings like these were hardly to have been achieved anywhere else but at the AIAS. ■

Morten Kyndrup, August 2015

ADVENTURES AT THE AIAS: LIFE AS A FELLOW

By: Djuke Veldhuis, AIAS Fellow

AIAS 2014 fellow Djuke Veldhuis explores life at the Institute eight months in. She was previously at University of Cambridge, Leverhulme Centre for Human Evolutionary studies, United Kingdom.

An Institute of Advanced Study (IAS) in the spirit of the one first founded in 1930 at Princeton where intellectual refugees such as Albert Einstein and Kurt Gödel had the freedom, time and resources to engage in science and scholarship as they saw fit. That is what the Aarhus Institute of Advanced Study offered in the application form.

Really? My time in academia had taught me that 'flexibility' and 'intellectual freedom' only went as far as bureaucracy, teaching and administration obligations allowed. And like when as an adult you find your favourite childhood candy in a store and buy it enthusiastically, only to be disappointed that it 'just doesn't taste the same'. So the scientist in me wondered whether I had overlooked some critical variables.

I had not.

Eight months into my fellowship I have the privilege of working with a community of intrepid researchers from across the globe studying everything from atoms and bacteria to classics and diatoms and much, much, more. This is why the AIAS is such a unique platform: multicultural, multidisciplinary and yes indeed, free to pursue curiosity-driven research with a maximum of intellectual freedom. The so-called 'strings-attached' for the AIAS fellows are minimal, no obligation to teach or get entangled in bureaucratic reports; and because fellowships run for up to three years, an opportunity to be free from the funding chase.

“

The AIAS environment is electric with ideas, which galvanize one's own research too. ”

“So,” I hear you say, “scholars in their ivory tower then?!” A valid question and one I have had to answer for colleagues who questioned the usefulness of a separate institute, which potentially diverts resources away from traditional departments, which already have high teaching loads to deal with. My experiences at the AIAS have taught me that the reverse is true. The freedom and trust instilled in the AIAS fellows, combined with an innate drive for overall academic excellence means that not only are my fellow fellows and I active within the AIAS community, but the ties and active collaborations with departments and research institutes across Aarhus University are vast. The majority of us regularly teach courses, initiate collaborate and public engagement projects not just with the department we are formally linked with as part of our AIAS fellowship, but often across three to five departments and institutes at Aarhus University alone.

Yes, of course there is an opportunity to focus exclusively on one's own work, but the ethos on which AIAS fellows are selected leads to a community of dynamic, outward looking and globally orientated scholars. Visitors at the AIAS soon notice that the doors to the building and its offices are not only wide open (literally), but cross-collaborations between people, subjects and research departments happen at a national and international level among fellows every day.

Our AIAS family is growing fast. Since cohorts of new fellows all start at the same time, there is a fantastic support structure for foreign researchers new to Denmark. From professionally organised help with housing and immigration papers, to spontaneous film and game



Conference activity in the Hall during the AIAS conference *The Human Condition* organized by fellow Cheryl Mattingly.

nights, communal lunches and pub quiz nights organised independently and voluntarily by the AIAS fellows, the atmosphere is truly that of a family.

We explore, argue and debate. Don't be surprised when, gathering just before an AIAS Fellows' Seminar, you'll hear people to your right discussing electron behaviour in cold atoms, while to your left there is a discussion on human sacrifice as you walk in to listen to a talk on climate change in the arctic.

The AIAS environment is electric with ideas, which galvanize one's own research too. One successful, fellow-led, initiative was to have a voluntary workshop for all those interested in finding out more about the plethora of research around them. The day included an 'academic speed dating' event wherein each fellow had just two-minutes to come up with a collaborative idea with every other researcher in the room. All ideas were scrib-

“ AIAS provides us with an unprecedented free-thinking and multidisciplinary environment. ”

AIAS 2014 fellows Amy Iler and Alfonso Blázquez-Castro

bled on sticky notes and discussed afterwards. And in the true spirit of the Institute, what started as a great way to get to know your colleagues, has led to active cross-disciplinary collaborations!

Take for example, Amy Iler, an ecologist from the USA working on plant responses to climate change and Alfonso Blázquez-Castro, a biologist from Spain interested in biological responses to different energy forms. They are starting a joint research project that includes a field



AIAS Fellow Karl-Erik Andersson in conversation with Prof. Annamaria Giraldi at the AIAS conference *The Hands of Time: Multiple Perspectives on Aging*.

research stay for both of them at the Rocky Mountain Biological Laboratory (RMBL) in Colorado. At the RMBL they will measure albedo (the fraction of light reflected by a surface) under different field conditions and relate it to soil temperature, soil moisture, and plant stress. Understanding relationships among seasonal biological changes in plants, floral albedo, sunlight intensity, and climate are critical for accurate predictions of how natural areas will respond to future climatic changes.

Also benefitting from the intellectual freedom awarded to the AIAS fellows are Karen Ní Mheallaigh, a classicist from Ireland and Machteld Verzijden, a biologist from the Netherlands:

"Our idea sprang from an explosive, two-minute fusion between a biologist and a classicist. The plan is to write a fantasy-story for children, entitled: *The incredible adventures of Dinias, the Mouse with Nous*, in which a mouse encounters all sorts of thrilling scientific wonders as he travels the world. Where do the Classics come in? This

intrepid mouse will be following the footsteps of Homer's Odysseus, both because Odysseus is the archetypal scientific explorer, whose travels are motivated by unflagging intellectual curiosity – and because of the monsters, of course. Watch this space!"

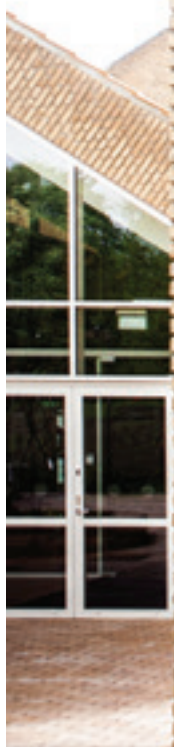
This AIAS spirit is alive and kicking. The free pursuit of learning combined with a strong work ethos within an international and multidisciplinary community dedicated to academic excellence provides an unprecedented career platform for early career researchers in particular. We are all well aware of this. At a recent lunch it was not the management that said: "Ask not what AIAS can do for you, ask what you can do for AIAS," but fellow Rikke Schmidt-Kjaergaard laying down the gauntlet and recognising that the magic of the Institute lies not in a tally of research papers produced, but in the scholarly community around it that opens new doors. At two years of age, the AIAS may be a young institute, but it's bursting with a curiosity, drive and passion. I invite you to join us. ■

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International recognition is of course of core importance for an institute like the AIAS. But it is almost equally important for the Institute to be recognized by and to have good connections with the rest of the university structure in Aarhus, at all levels. ”

Director Morten Kyndrup

AARHUS INSTITUTE OF ADVANCED STUDIES



SWEET-TALKING ABOUT SUGAR

By: Bjørn Panyella Pedersen, AIAS-COFUND Fellow

Understanding sugar uptake mechanisms in greater detail will lead to insights into fundamental pathways and regulation systems in the human body, and concomitantly also into malfunctions and diseases of these pathways.

In my newly established research group, we work with nutrient uptake in the human body. Specifically we are trying to elucidate the mechanism by which we take up sugars, such as glucose, across cellular membranes. This is an essential part of human metabolism. This process has been studied for more than 40 years, and the first sugar transport protein called GLUT1 was identified in 1977 in samples extracted from red blood cells. In red blood cells, the uptake of glucose is mediated by GLUT1 of which there are about 300,000 per cell, which is considered very high and reflect its essential function. The resultant high glucose transport capacity of the human red blood cell is consistent with its high dependence on glucose for generating energy. For this reason, research into sugar transport across cell membranes has traditionally been studied in this cell type.

NEW METHODOLOGY, NEW TECHNOLOGY, NEW DEVELOPMENTS

Over the last ten years this picture has changed dramatically. What we can do now is to generate and isolate sugar transporters from other sources such as yeast, thus generating much larger quantities than in the original studies. This methodology also has another key advantage, namely that we can modify (i.e. mutate) the protein composition to analyse small chemical changes. This helps us to elucidate how specific parts of the transporter affect specificity and activity, and we can look at differences between different isoforms of sugar transporters.

Technological developments within the field of macromolecular crystallography now also allow us for the first time to visualize these sugar transporting proteins and to see how they respond to the binding of sugars. This ability to create 3-dimensional models of proteins based on the diffraction properties from X-ray experiments is a very well-established methodology that has contributed tremendously to our understanding of the biological world at the nano-scale. Now, this can be employed on this family of proteins as well.

Of particular interest to me is to understand the differences in activity and speed that different sugar transporter isoforms can display towards their substrate. The regulation of sugar uptake in different tissues of the human body is essentially controlled by the expression level of different sugar transporter isoforms and their inherent variation in speed and affinity for different sugars.

'SMALL' BRAIN, BUT HIGH ENERGY CONSUMPTION

As an example, the energy consumption of the brain is very high. Although its mass constitutes only of about 2% of the total body weight, the brain consumes 20% of the carbohydrates ingested. This corresponds to 100 g of pure glucose per day, or half the daily glucose requirement for a normal human being. The brain can only store energy in a very restricted form and is almost exclusively dependent on externally provided glucose as an energy substrate.



Bjørn Panyella Pedersen

CURRICULUM VITAE – Bjørn Panyella Pedersen

CURRENT POSITION

Assistant professor at Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Denmark

APPOINTMENTS

July 2015	ERC Starting Grant – Principal Investigator
2014-present	Sapere Aude: DFF – Research Leader
2014-present	Aarhus Institute of Advanced Studies (AIAS) Fellow
2010-2014	Danish Cancer Society Postdoctoral Fellow, University of California, San Francisco, USA. PI: Robert M. Stroud
2008	PhD in Molecular Biology, Aarhus University, Denmark

MAIN SCIENTIFIC PROFILE

Membrane protein structure and function. Low resolution crystallography methodology.
Current focus: Membrane transport of lipids, vitamins, sugars and organic ions.

METRICS AND PATENTS

Received DKK 22M in funding in the last 5 years. 16 papers; 800+ citations, H-index of 9

AWARDS

2015	ST Science Award by Faculty of Science and Technology, Aarhus University
2015	DuPont Young Professor Award
2008	Lundbeck Foundation talent prize

The brain is separated from the rest of the body's circulation by the blood-brain-barrier. Therefore, glucose has to be brought there using sugar transporters located in this barrier. The final import to the neurons from the astrocytes comes through the sugar transporter isoform GLUT3. GLUT3 has about fivefold greater transport capacity than GLUT1, which is significant for its role in neuronal glucose transport, where ambient glucose levels surrounding the neurons are fivefold lower than in the blood due to the blood-brain barrier.

We are currently working on understanding the mechanism and functionality of GLUT3 as well as the differences from GLUT1 to GLUT3. We are able to express and purify human GLUT3 in yeast and use this high quality sample to obtain protein crystals that are needed to elucidate the 3-dimensional structure. This will ultimately help us understand what makes GLUT3 a more efficient sugar transporter than e.g. GLUT1.

IMPACT ON THE GENERAL PUBLIC HEALTH

The potential impact of our research is significant. Understanding sugar uptake mechanisms in greater detail will lead to insights into fundamental pathways and regulation systems in the human body, and concomitantly also into malfunctions and diseases of these pathways. For in-

stance, the development of cancer is in great part related to the uptake of sugar. The tumor has very high energy requirements and as a result has a very large abnormal production of sugar transporters that help take up sugar from the surrounding environment.

EARLY CAREER DEVELOPMENT

The support from my AIAS fellowship has been invaluable during my transition from my previous workplace, University of California, San Francisco, to the AIAS and Aarhus University. Furthermore, being an AIAS fellow has had a great impact on my daily work life, and how I approach my research. Especially the daily discussions with my co-fellows have influenced my approach to science. With the support from the AIAS, I recently received an ERC Starting Grant as well as a Danish National Research Council Sapere Aude grant to allow for the creation of an independent research group at Aarhus University. With this funding and the continued support from the AIAS, I aim at consolidating my research in nutrient uptake, and build a strong research group here in Denmark. The AIAS-COFUND Reintegration Fellowship is helping me to achieve this goal by providing me with support and inspiration during this critical phase in my early career as an independent scientist.

NEW ENVIRONMENT AND NEW PEOPLE SPARK NEW IDEAS

By: Amy Iler and Alfonso Blázquez-Castro

AIAS Fellows Amy Iler and Alfonso Blázquez-Castro in joint collaboration project on 'Timing of plant reproduction, flower albedo, and soil moisture: a positive feedback between vegetation and climate change?'

During an internal AIAS Fellows' workshop in November 2014, one of us (Amy Iler) presented research on changes in flowering time at the Rocky Mountain Biological Laboratory (RMBL) in Colorado, USA. One slide displayed two pictures taken at the same place and date, but in different years; one photo contained abundant yellow flowers, while the other was mostly green because there were few flowers that year. The large difference in brightness between the two pictures led to one of us (Alfonso Blázquez) to wonder if there is a decrease in reflected light when flowers are few, and if this could increase solar heating and stress on plants. After some literature research, we came to the conclusion that this particular issue has never been studied but could be an important feedback between plants and climate.

FROM THE AIAS TO THE ROCKY MOUNTAINS

On these grounds, we made the following research proposal together. As the climate changes, the arrival of spring is becoming earlier in temperate regions across the globe. In the Rocky Mountains, wildflowers are blooming progressively earlier as the snow cover melts earlier in the spring. Some plant species counter-intuitively suffer increased frost damage under these conditions, because the plants are now developing their flower buds at a time of year when temperatures often dip below freezing. We are studying whether this loss of flowers alters the amount of sunlight that is reflected (albedo).



Photo: RMBL

Amy and Alfonso at the RMBL, USA

Green leaves reflect less light than yellow flowers, which could result in even warmer and drier soils when snowmelt is early. This, in turn, may result in increased stress for both plant and animal populations in the area.

ONE PROJECT, TWO MINDS

We are starting a joint research project, supported by the AIAS that includes a field research stay for both of us at the RMBL during the summer of 2015. At the RMBL we will measure albedo under different field conditions and relate it to soil temperature, soil moisture, and plant stress. Understanding these relationships among biological timing, floral albedo, sunlight, and climate are critical for accurate predictions of how natural areas will respond to future climatic changes. Our results will be published in peer-reviewed scientific journals and additional field experiments are foreseen in upcoming years. ■

LASER MODULATION OF LIVING SYSTEMS

By: Alfonso Blázquez-Castro, AIAS-COFUND Junior Fellow, Postdoc, previously Department of Biology, Autonomous University of Madrid, Spain

Previous studies on physiological responses to photodynamic ROS exposure are very scarce and none has been done at the single cell level. A reliable methodology to induce cell proliferation or modulation on a desired cell will be of utmost importance in the biomedical field.

I have always been attracted by many areas of knowledge. Therefore, I try to blend aspects and trends from different fields in my research. My main education has been in biology but I always strive to take a turn into chemistry and physics. My general research goal is to understand how different energy sources as light, heat and acoustic waves interact with living matter and exploit those energy sources to open new venues in the biomedical field.

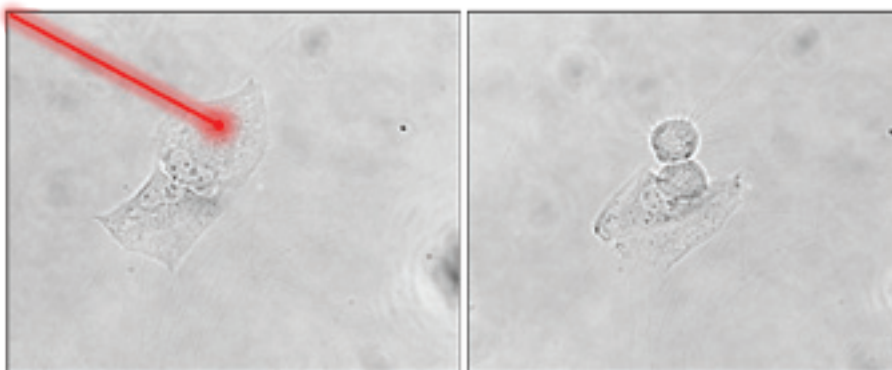
INDUCING PHYSIOLOGICAL RESPONSES IN HUMAN CELLS

My current research project at the AIAS entitled 'Cell modulation and stimulation through laser photodynamic treatments at the single cell level' focuses on inducing physiological responses in human cultured cells by producing small amounts of reactive oxygen species (ROS).

ROS are employed as signalling molecules by mammalian cells. I study procedures that allow cell modulation through the production of small ROS amounts at convenient times and/or particular spatial domains within or close to target cells. High levels of dose control are attained by making use of a femtosecond laser. Recently our group has published a very promising method to produce ROS by directly exciting molecular oxygen present in the cell culture with the femtosecond laser.

POTENTIAL IMPROVEMENT FOR BIOMEDICINE

Some control on cell proliferation rate has also been obtained with the same laser technology, and these results were published in the journal *Photochemical & Photobiological Sciences*. Currently I am starting experiments with primary human cell cultures in order to assess a more applied model from the biomedical point of view. This procedure can have great impact in the biomedical field from basic science (cell culture manipulation without relaying to chemical compounds) to regenerative medicine (increased tissue regeneration) or stem cell therapy (cell differentiation control). ■



Infrared laser light pulses produce Reactive Oxygen Species (ROS) inside targeted cells through a photodynamic process (left image). The laser allows ROS dose tuning, both spatially and temporally. ROS function as signalling molecules in cells resulting in different outcomes depending on the dose, from proliferation to apoptosis. Our goal is to produce very low ROS amounts to induce a range of physiological responses in cells (right image, irradiated cell was induced to proliferate faster).

WATCHDOG OF CLIMATE CHANGES

By: Amy Iler, AIAS-COFUND Fellow,
Rocky Mountain Biological Laboratory, USA



Photo: Amy Iler studying plants in Colorado, USA

Climate change is rapidly reshaping the biological world. One of the most prominent biological indicators of climate change is phenology – the timing of biological events – such as flowering.

My research tests fundamental questions about how global environmental change reshapes ecological processes, ranging from individual organisms through communities of interacting species. Evidence of declining pollinator populations and their importance for agricultural and natural ecosystems sparked my interest in plant-pollinator interactions early in my career. Phenology—the timing of biological events—largely determines the environmental context in which ecological interactions occur, and is a pervasive theme throughout my research program. I use long-term data sets (greater than 10 years), observational and experimental field studies, and demographic modeling to address my research questions. For example, some of my previous work addressed how invasive species (species that are introduced into natural areas either on accident or on purpose by humans) and climate change can disrupt interactions between plants and pollinators.

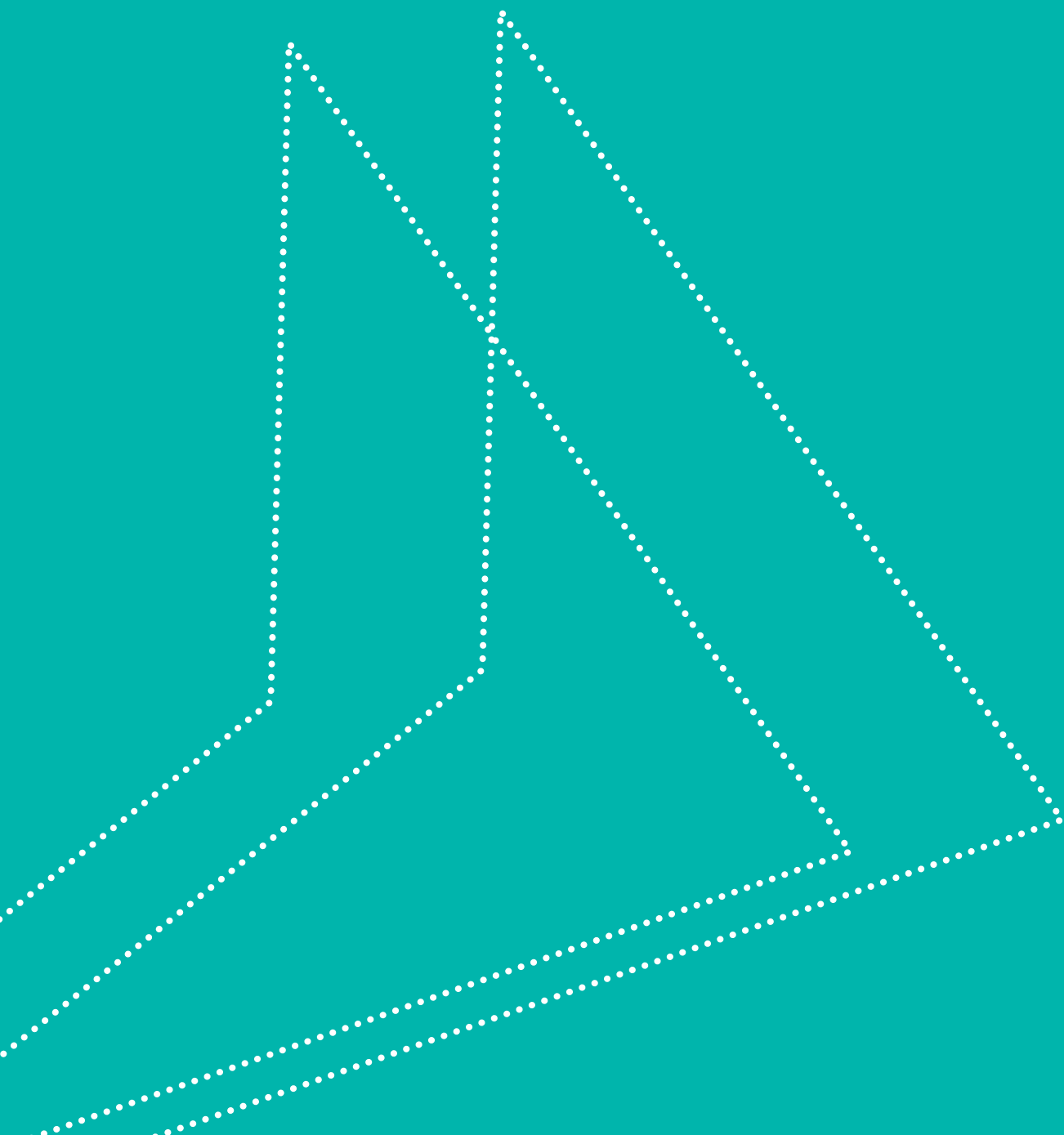
DRIVERS OF EARLIER FLOWERING TIMES

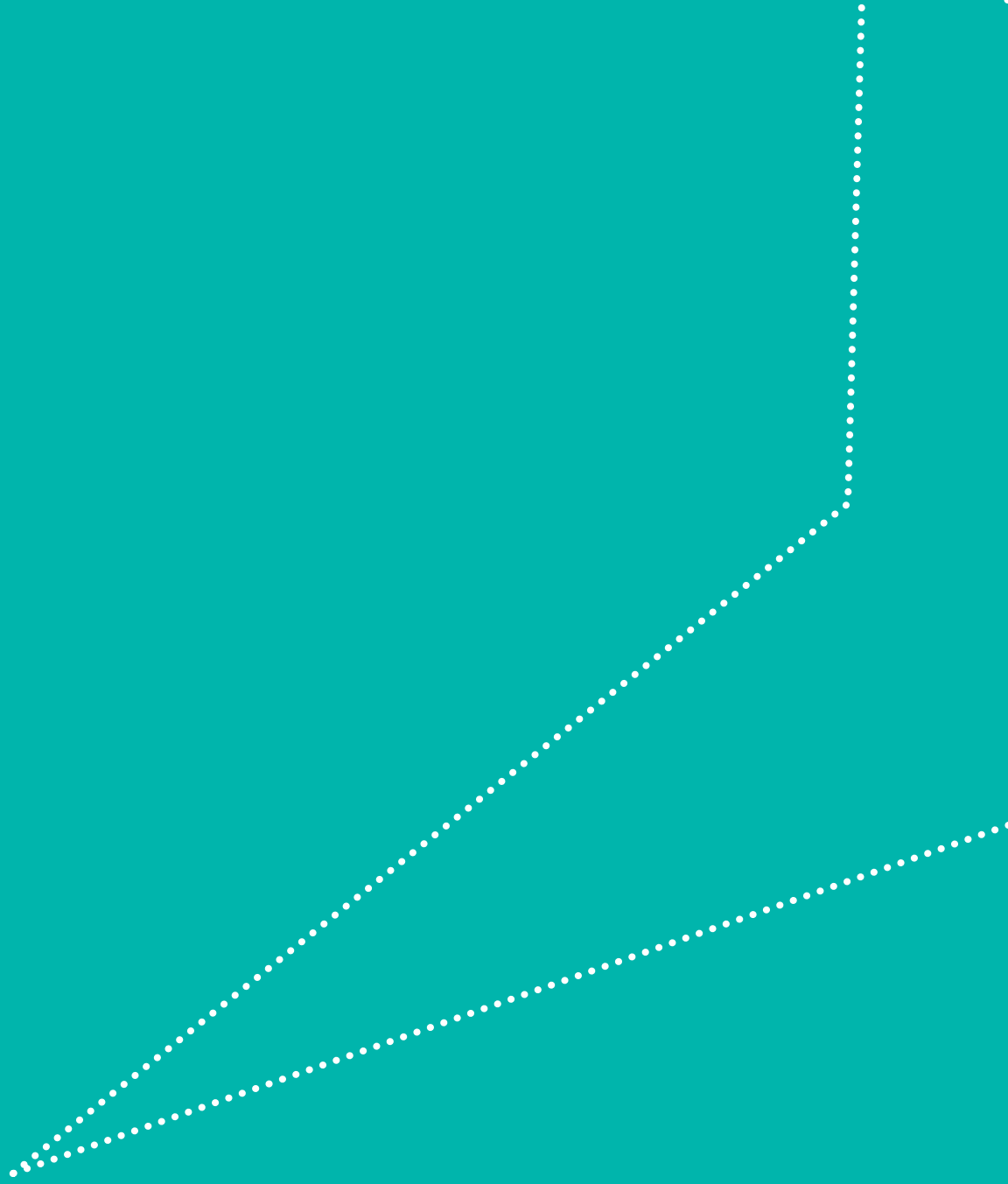
My research project at the AIAS entitled 'Mechanisms underlying interspecific variation in flowering responses to climate change: the roles of abiotic drivers and phenotypic plasticity' focuses on the plant side of plant-pollinator interactions. In particular, my project examines the ecological and evolutionary drivers of earlier flowering times under climate change in mountain and arctic ecosystems, areas of the world experiencing rapid shifts in climate. The major finding of my project to date is that sensitivity of flowering time to climate is mainly plastic in these habitats, meaning that earlier flowering dates under climate change include very little adaptive change. This implies that flowering time in these plants is flexible enough to track climatic changes to date and also highlights some uncertainty in whether the rate of adaptation will keep up with the rate of continued climate change.

FRAMEWORK FOR PREDICTION OF CLIMATE CHANGE

Ultimately, my research project at the AIAS aims to create a more generalized framework for plant responses to climate change, which is integral for predicting these responses under future climate scenarios. ■

FELLOWS 2014-2015





The AIAS is **brimming** with intellectual activity. 38 fellows from around the world and from Aarhus University have stayed at the Institute this academic year. They comprise **all academic main areas**, come from 26 different research institutions and enrich the **international atmosphere** of the Institute with 14 different nationalities.


ALEXANDER PANAYOTOV

AIAS COFUND Junior Fellow

Postdoc, previously Faculty of Divinity, University of Cambridge, United Kingdom

Area of research: Jewish Studies
Project title: 'Minority status and identity: A case study of the Jewish minority in Byzantium'

My project aims to investigate the social and economic relations in the Byzantine empire that influenced the communal and everyday life of the Jewish communities between the fourth and the seventh century. Geographically, the project will include the areas of the Balkans, the Aegean, Asia Minor and Cyprus. In order to establish the place Jews occupied in the stratigraphy of Byzantine society, I will focus my research on the communal organisation and leadership of the Jewish community, the social status, occupation and cultural concerns of its members.


ALFONSO BLÁZQUEZ-CASTRO

AIAS COFUND Junior Fellow

Postdoc, previously Department of Biology Autonomous University of Madrid, Spain

Area of research: Biophotonics
Project title: 'Cell modulation and stimulation through laser photodynamic treatments at the single cell level'

The main goal of my research project is to induce physiological responses in human cultured cells using lasers to produce small amounts of reactive oxygen species (ROS). ROS are employed as signaling molecules by mammalian cells so we strive to steer cell behavior by producing ROS at convenient times and/or particular spatial domains within/close to target cells. During my current research at the AIAS I have already published a simpler and very promising method to produce ROS in a controlled way by directly exciting molecular oxygen present in the cell culture.


AMY ILER

AIAS COFUND Junior Fellow

Postdoc, previously Department of Biology, University of Maryland, USA

Area of research: Ecology
Project title: 'Mechanisms underlying interspecific variation in flowering responses to climate change'

My research project focuses on understanding plant responses to climate change in montane and arctic ecosystems, areas of the world experiencing rapid shifts in climate. The major finding of my project to date is that sensitivity of flowering time to climate is mainly plastic in these habitats, meaning that earlier flowering dates under climate change include little adaptive change (manuscript in review at *Ecology Letters* and presented at DK-Oikos meeting at the AIAS). This summer I will conduct an interdisciplinary project in collaboration with AIAS fellow Alfonso Blázquez-Castro to investigate feedbacks among altered flowering times, light reflectance, and plant stress.



ANJA KAMP

AIAS COFUND Junior Fellow

Postdoc, previously Molecular Life Science Research Center, Jacobs University Bremen, Germany

Area of research: Marine ecology

Project title: 'Diatoms in Darkness and Anoxia'

Our oceans teem with diatoms - photosynthetic protists that can be found in open waters and on the sea floor. But diatoms can also survive buried in the sea floor, where neither oxygen is available, nor photosynthesis is possible. Here, they 'breathe' with nitrate instead of oxygen. My research at the AIAS aims at revealing how exactly diatoms switch their metabolism from aerobic to anaerobic processes. The AIAS gives me the perfect environment to focus on science and to establish fruitful exchange and collaborations with co-fellows and colleagues at Aarhus University.



BENT JESPER CHRISTENSEN

Jens Christian Skou Senior Fellow

Professor, Department of Economics and Business, Aarhus University, Denmark

Area of research: Economics

Project title: 'Markets, Productivity, Long Term Risks, and Sustainability'

I study the ability of markets to function desirably in the face of increasing long term risks associated with growing and aging populations, economic and financial disasters, international migration, and globalization of capital, labor, and product markets. One strategy for alleviating these challenges, which I have studied with Dale T. Mortensen, is to increase productivity to better utilize existing resources. I investigate whether a reallocation of employees to the most productive employers may be brought about by markets or require government intervention, and study related insurance and financial problems. I have co-organised the AIAS conference on Aging: 'The Hands of Time: Multiple Perspectives on Aging' in collaboration with a couple of fellows and AU researchers.



BJØRN PANYELLA PEDERSEN

AIAS COFUND Junior Fellow

Assistant Professor, previously Dept. of Biochemistry and Biophysics, University of California, USA

Area of research: Molecular Biology

Project title: 'Molecular Mechanism of Sugar Uptake in Humans'

The project supported by my AIAS fellowship addresses fundamental scientific questions pertaining to an essential membrane transport system in humans; namely facilitated sugar transport. We address this system using a set of methods founded in macromolecular crystallography to elucidate structural information. Our work will help to uncover general principles of facilitated diffusion systems. Furthermore an improved understanding of sugar homeostasis has tremendous potential for improving the general public health, and our work will stimulate pharmacological efforts to identify and develop compounds of therapeutic value for e.g. obesity, diabetes and cancer.



CHERYL MATTINGLY

Dale T. Mortensen Senior Fellow
Professor, Department of Anthropology, University of Southern California, USA

Area of research: Anthropology

Project title: 'Moral Epidemics and the Making of a "Good Family": Raising Children with Autism and ADHD in the United States and Denmark'

My ethnographic study explores the ethics of care, the good life, and parental activism concerning autism, ADHD and other childhood disabilities. This year, publications include a book, *Moral Laboratories: Family Peril and the Struggle for a Good Life* (Mattingly 2014, University of California Press). Conceptually, this project involves collaboration between anthropologists and philosophers at Aarhus University. It has generated two international AIAS conferences. A forthcoming one is entitled: 'The Human Condition: Reinventing Philosophical Anthropology.' An edited book, is under contract by Berghahn Press: *Moral Engines: Exploring the Ethical Drives in Human Life* (editors: Mattingly, Louw, Wentzer, Dyring).



CHRISTIAN ULRIK ANDERSEN

Jens Christian Skou Junior Fellow
Associate Professor, Ph.D., Department of Aesthetics & Communication (Digital Design), Aarhus University

Area of research: Software studies

Project title: 'Vector Space – The aesthetics of contemporary interface culture'

My research addresses the aesthetic and cultural implications of the networked computer – how computing builds on cultural assumptions, and simultaneously affect our cultural forms. While at the AIAS, I will focus on how massive accumulation and processing of data (by Google, Apple, Facebook, etc.) creates a multidimensional space, the cultural interfaces of this space, and the software-based artistic/hactivist practices that interfere with them. I will be writing a book that I hope will contribute to an understanding and critique of contemporary interface culture and its emerging art forms.



CONSUELO MANETTA

AIAS COFUND Junior Fellow
Postdoc, previously Department of History, Culture and Society, University of Tor Vergata, Rome, Italy

Area of research: Classical archeology

Project title: 'The Different Faces of the Sky – decorative culture, floral, astral and mythological representations within figural coffered ceilings'

My research focuses on the analysis of sculptured and/or painted figural coffered ceilings in Greek and Roman areas between the Late Archaic (500 BC) and the Late Antique periods (Fourth - Fifth century AD). Though sunken panels have been frequently used as a decoration for ceilings or vaults in ancient times, the partial state of our knowledge of the motifs, which decorated these architectural features reflect the happenstance and fragmentary nature of the discoveries themselves. My study aims to offer an iconographic and iconological reading of the figurative repertoire within the lacunars in a diachronic perspective. I am particularly interested in verifying how effective the use of astral themes within ceiling decoration was. Currently, I am working on a forthcoming book publication and on writing articles on topics related to my project.



DAVID PETROSYAN

Dale T. Mortensen Senior Fellow

Principal Researcher, Institute of Electronic Structure and Laser of the Foundation for Research and Technology, FORTH, Greece

Area of research: Quantum physics

Project title: 'Simulating dissipative dynamics of strongly interacting Rydberg atoms'

I specialize in theoretical quantum optics. Much of my research is motivated by physical implementations of quantum computers and simulators. During my time at the AIAS, I mostly investigated strongly-interacting atoms optically excited to the high-lying Rydberg states. Such systems are uniquely suited for simulations and studies of few- and many-body physics under well-controlled conditions. Other topics of my research include spin chains realized by one-dimensional ensembles of cold atoms, and hybrid quantum systems involving interfaces between diverse physical components. I had productive and rewarding collaborations with colleagues from IFA-AU, and became a member of the Aarhus node for an EU funded collaborative project RySQ whose inaugural workshop took place at the AIAS in March 2015.



DJUKE VELDHUIS

AIAS COFUND Junior Fellow

Postdoc, previously University of Cambridge, United Kingdom

Area of research: Biological anthropology

Project title: 'Stress in modern human populations: a biocultural approach to assessing the costs and limits of adaption'

My research focusses on cross-cultural comparison examining the costs and limits of adaptation, including the effect of modernization, through biocultural stress measures in European, Pacific and Arctic populations. The key objectives for my three-year research project are to 1) build up a physiological profile of stress by measuring hormones in saliva; 2) assess behavioural responses to and psychological indicators of key stressors in populations undergoing rapid modernisation. These data will be 3) evaluated to consider the evolutionary context in which the human stress response evolved.



GEORG SØRENSEN

Jens Christian Skou Senior Fellow

Professor, Department of Political Science and Government, Aarhus University, Denmark

Area of research: Political Science

Project title: 'Rethinking world order'

Book project: RETHINKING WORLD ORDER. Where are we exactly today as regards world order? Peace has made progress in the sense that conventional war among states is much less of an imminent threat than it used to be; and many millions of people have been taken out of abject poverty. But large-scale violence continues unabated within the most fragile states. Social inequalities are breaking up long-standing social compacts in many countries. After a long period of increasing interdependence, emphasis is now on independence in many countries. That will make international cooperation more difficult.



JAN ALBER

AIAS COFUND Junior Fellow

Dr., Associate Professor, University of Freiburg, Germany

Area of research: English studies:

Project title: 'Ideology and Form: The Experimentalism of Recent Australian and Indian-English Prose Narratives'

At the AIAS, I am working on a book about negotiations of indigeneity in contemporary Australian prose narratives that were published between 1980 and 2010. I compare self-representations by indigenous authors (such as Kim Scott, Sam Watson, and Alexis Wright) to the ways in which non-indigenous writers (such as Kate Grenville, Andrew McGahan, and David Malouf) address Aboriginality. While indigenous narratives display a movement towards more resilience and playful experimentation, the non-Aboriginal prose texts critically deal with the psychology of the white community in the past and today. I am interested in the ideological ramifications of these negotiations.



JESPER FREDENSLUND LEVINSON

Dale T. Mortensen Junior Fellow

Postdoc, previously University of Cambridge, UK

Area of research: Quantum Physics

Project title: 'Engineering novel quantum phases with cold atoms'

My research mainly focusses on ultracold atomic gases, with an emphasis on routes to creating strong effective interactions in quantum systems. During the last half year of my AIAS fellowship, I proposed a novel strong-coupling ansatz for a one-dimensional Fermi gas in a harmonic potential, a paradigmatic quantum system. This work has been recognised by several invitations for invited talks, and it has recently been accepted for publication in the high-impact journal *Science Advances*. Additionally, I published in the high-impact journal *Physical Review X*, in *Physical Review A*, and currently have a paper under review with *Physical Review Letters*.



JESSICA SHADIAN

AIAS COFUND Junior Fellow

Dr., Associate Professor, previously Arctic Centre, University of Lapland, Finland

Area of research: International relations and Arctic governance

Project title: 'Transnational Legal Spaces and the Arctic: Inuit community-based monitoring and regional Arctic resource governance – shall the twain meet?'

My project focuses on the legal implications of Arctic indigenous sovereignty as it relates to Arctic extractive industries and Arctic governance. My research question is: How, and in what ways can and should coastal indigenous communities play in Arctic Emergency Preparedness and response policy and governance. This research includes a joint NSF submission with Jim Gamble, Executive Director of Aleut International Association (AIA), a 580,000 USD submission to NSF, a co-authored article: 'Arctic Security and Safety: Local/Regional Governance Linkages in the Aleutian Islands', and a co-authored article (with Hari Osofsky) submitted to the *Stanford Journal of International Law* entitled: 'Hybrid Energy Cooperation'.



JOSEPH L. SCARPACI

AIAS COFUND Senior Fellowship

Associate Professor, Gary E. West College of Business, West Liberty University, USA

Area of research: Marketing and management

Project title: 'Consumption, semiotics and iconic branding in welfare states: A Latin American and Nordic comparison'

My research is at the interface of material culture, consumption, Branding, and national identity. I endeavor to understand the extent to which cultural symbols and values are embedded in the leading national consumer products. National branding strategies in the so-called welfare states potentially vary in how consumers perceive elements that resonate in top-of-the mind recall in Denmark, Cuba, Chile and Argentina.



JULIETA GOENAGA

AIAS COFUND Junior Fellow

Postdoc, previously Evolutionary Biology Center/Animal Ecology Department, Uppsala University, Sweden

Area of research: Biology

Project title: 'Sexual selection and the evolution of male and female reproductive proteins'

Male reproductive proteins (Acps) transferred to females at mating are required for full fertility and have profound effects on female physiology, affecting fecundity, female remating rate and mediating the sperm competition (SC) outcome. Acps are the primary target of postcopulatory sexual selection (PSS) on males, a potent force that may drive rapid evolution of Acps and female reproductive proteins (Frps) with important consequences for speciation. My project at the AIAS combines quantitative comparative proteomics, phylogenetic comparative analysis and experimental evolution to provide us with an exceptional understanding and a more comprehensive overview of the evolutionary processes affecting the divergence of Acps and Frps and its role as a driving force in speciation.



JÜRGEN ELVERT

AIAS COFUND Senior Fellowship

Prof. Dr., Department of History, University of Cologne, Germany

Area of research: History

Project title: 'A Maritime History of European Civilization. A joint research-project'

If we understand European expansion and contacts with non-European civilizations as a basically open system, it is evident that the self organization powers of this open system have not only shaped Europe's relations with the "other" but also transformed Europeans and European civilizations. Therefore I understand Europe's embrace for the world and its consequences in Modern history as "an activity of the contingent" with an inherent organizing principle, which has, in a complex and dynamic process, transformed both Europe and large parts of the world. The project is designed to carve out the basic patterns of this principle and will try to explain the process-mechanisms which have shaped both European civilization and today's world.



KAREN NI MHEALLAIGH

AIAS COFUND Junior Fellow

Dr., Senior lecturer, Department of Classics and Ancient History, University of Exeter, United Kingdom

Area of research: Classics and Ancient History

Project title: 'Discovering the ancient scientific imagination'

Since joining the AIAS in October 2014, I have experienced the creative energy that come as a result of liberation from ordinary duties and immersion in a wonderfully imaginative community of scholars from both sciences and humanities. I began work immediately on my project *Discovering the ancient scientific imagination*, and have managed to complete a monograph (*Selenography: the Moon in the ancient scientific imagination*), three articles, and with AIAS' support, I have organised an international conference, *Adventures beyond Thule: the wonders of Antonius Diogenes in antiquity and beyond*, 21 and 22 April 2015.



KARIN LYKKE-HARTMANN

Jens Christian Skou Senior Fellow

Associate Prof., Department of Biomedicine, Aarhus University, Denmark

Area of research: Biomedicine

Project title: 'Modeling Early Development'

The human oocyte is capable of differentiating into all cell types in the human body. Inefficient or faulty differentiation will result in the death of the fetus and ultimately in infertility, a reproductive disease. Knowledge about the regulatory mechanisms that specify plasticity (cell types) and potency (differentiation) are still limited and only now becoming more understood. This project will investigate the essential roles of novel players in gene regulation during embryogenesis by using transcriptome analysis combined with mice as an experimental system.



KARL-ERIK ANDERSSON

Dale T. Mortensen Fellow

Professor, MD, previously Wake Forest Institute for Regenerative Medicine, USA

Area of research: Urogenital physiology/pharmacology

Project title: 'Aging bladder dysfunction'

The project is focused on the relation between increasing age, atherosclerosis and reduced blood flow to the bladder as a cause of urinary urgency and incontinence and eventually of inability to empty the bladder. We have developed a rat model of chronic pelvic organ ischemia and have been able to show that reduction of bladder blood flow causes changes in bladder structure and function similar to those often seen in the elderly: increased bladder fibrosis, decreased bladder contractility and bladder overactivity. These changes may progress to bladder underactivity and inability to empty the bladder.



LOTTE PHILIPSEN

Jens Christian Skou Junior Fellow

Postdoc, Department of Aesthetics and Communication, Aarhus University, Denmark

Area of research: Contemporary art

Project title: 'Artistic use of new technologies and new media'

In my research at the AIAS, I investigate how new technologies and new media are used aesthetically. I am interested in works of art that seem to walk the line between the established scene of contemporary art and technical invention in a broader cultural sphere (like DNA manipulation, cloud computing etc.) I test how such works of art comply with, challenge, and expand existing theory of art and aesthetic. Hence, concretely my daily work at the AIAS consists in reading theory and visiting exhibitions for contemporary art. I am currently working on a book with the working title Digital Aesthetics.



MACHTELD VERZIJDEN

AIAS COFUND Junior Fellow

Postdoc, previously Lund University, Sweden

Area of research: Biology

Project title: 'The evolution of the ability to learn in choosing a mate'

I am interested in what shapes mating preferences of animals, and the effect of these preferences on evolution. Mate choice is key to a number of evolutionary processes, including sexual selection, speciation and life history, because it directly influences which genes make it to the next generation. During my AIAS fellowship, I focus on the genetic mechanisms that allow individuals (of fruit flies) to learn, and the ability of populations to evolve an increased ability to learn. This allows me to experimentally study the effects of learning on evolution in general and sexual selection specifically.



MADS VAARBY SØRENSEN

AIAS COFUND Junior Fellow

Associate Professor, previously Institute of Anatomy, University of Zürich, Switzerland

Area of research: Renal physiology

Project title: 'The renal natriuretic response following an acute potassium intake'

Potassium (K⁺) rich diets are known to protect against hypertension, but high K⁺ intake also exerts a homeostatic challenge for the organism. The amount of K⁺ in our bodies is the major deterrent of cellular volume and resting membrane voltages. The latter is of crucial importance for vital function of heart, nerves and muscles. K⁺ must therefore be eliminated rapidly following ingestion of a K⁺ rich meal. The Kidneys are the most important organs for elimination of K⁺. My research relates to the renal response to a high K⁺ intake in relation to the protective effects against hypertension.



MARIE BRAAD LUND

Dale T. Mortensen Junior Fellow

Postdoc, previously Department of Environmental Earth System Science, Stanford University, USA

Area of research: Microbiology

Project title: 'Faithful but not enslaved: Drives of genome evolution in microbial symbionts'

My scientific research before the AIAS has primarily focused on the study of the function and evolution of earthworm symbionts and marine nitrogen cycling. Now at the AIAS, I am concentrating my research on the earthworm symbiosis system, which I am using as a model for understanding basic evolutionary principles. More specifically, I am studying the genome evolution of extracellular symbionts by using the nephridial (excretory organ) *Verminephrobacter* symbionts of earthworms as a model system. This research will provide novel insights into the factors driving the genome evolution of host-associated microbes – both beneficial and pathogenic.



MARTIN HOLMSTRUP

Jens Christian Skou Senior Fellow

Professor, Arctic Research Center, Department of Bioscience, Aarhus University, Denmark

Area of research: Biology

Project title: 'Evolutionary responses of soil invertebrates to global warming'

I am broadly interested in the capacities of soil invertebrates to cope with major environmental stresses such as drought and extreme temperatures, and how climate change will inflict on communities of soil animals. My project aims at answering the question 'Can species adapt to climatic changes at a rate that matches the rate of climate change?'. The main goal is to study evolutionary responses of free-ranging populations subjected to rapid climatic changes by investigating important physiological traits such as thermal performance, metabolic rate and membrane lipid chemistry.



ORIIETTA CORDOVANA

AIAS COFUND Senior Fellow

Associate Professor, previously School of History, Classics and Archaeology, University of Edinburgh, United Kingdom

Area of research: Ancient history

Project title: 'Ancient Ecosystems. The Roman Frontier in Britain and North Africa'

The topic of my research at the AIAS is the Roman frontier in two sample areas, Britannia and North Africa. I propose to adopt a multidisciplinary approach, and I concentrate my research focus especially on the legal status of lands in marginal areas, as well as the human interaction with and impact on the environment at the socio-economic level. The main goals of my research are a better understanding of the impact of Roman imperialism especially in marginal areas of the Empire, political and economic responses to it, and cultural appropriations on the part of the native populations.



ÓSCAR JOSÉ MARTÍN GARCÍA

AIAS COFUND Junior Fellow

Postdoc, previously Department of History, University of Castilla-La Mancha, Spain

Area of Research: History

Project Title: 'United States policy in 1960-1970s Spain and Portugal. Modernisation, education and the bumpy road to democracy'

In my research at the AIAS, I study the United States public diplomacy towards the Iberian dictatorships in the 1960s and 1970s. I am particularly interested in the cultural exchange programs, the educational initiatives and the information activities deployed by the American government aimed at paving the way for an orderly and moderate post-authoritarian transition in Spain and Portugal. Currently, I am working on a monograph publication on this topic and I have co-authored the article 'The Engaging Power of English Language Promotion in Franco's Spain', which will be published in the forthcoming issue of *Contemporary European History*, Volume 24, Issue 3.



PAUL W. DENTON

Jens Christian Skou Junior Fellow

Associate Professor, Department of Clinical Medicine, Aarhus University, Denmark

Area of research: Infectious Diseases

Project title: 'HIV Latency in the Gastrointestinal Tract'

Latent human immunodeficiency virus (HIV) infection is defined as the persistence of inactive, but replication competent virus despite therapy. Overcoming latent HIV infection is the biggest challenge in the search for an HIV cure, my research interest. The goal of my fellowship project is to characterize latent HIV infection in the intestines of patients during therapy because the intestines are a site of major HIV-induced pathologies. Completing this project will fill a critical knowledge gap that will facilitate appropriate tissue targeting during novel HIV cure therapeutic interventions.



RANE WILLERSLEV

Jens Christian Skou Senior Fellow

Professor, School of Culture and Society, Aarhus University, Denmark

Area of research: Anthropology

Project title: 'Human Sacrifice and Value – A Comparative Approach'

The research I am undertaking is about human sacrifice with the aim of uncovering what values are cherished as ends in these types of sacrifices. To this end I have conducted several months of fieldwork among the Ik, a group of hunter-gatherers in northern Uganda and among the reindeer herding Chukchi of northeast Siberia. Both groups engage in ritual blood sacrifice. While I have still not provided a full answer to what could be called the grand-prize question, namely 'Why human sacrifice?', I have succeeded in writing a number of articles on related topics: How we might understand the transition from hunting to domestication as generated by sacrifice (*Journal of the Royal Anthropological Institute* 2015), what is the significance of faith for human sacrifice (*HAU: Journal of Ethnographic Theory* 2015), and what role hunger plays in human sacrifice (*Ethnos* submitted).



RIKKE SCHMIDT KJÆRGAARD

Jens Christian Skou Junior Fellow

Associate Professor, Interdisciplinary Nanoscience Center (iNANO), Aarhus University, Denmark

Area of research: Scientific data visualization

Project title: 'Interdisciplinary visual approaches to molecular and nanoscale data analysis'

My research focuses on how to represent scientific data visually. I'm particularly interested in analysing and developing integrated methods and tools for visualising biological data. Through analysis of existing visual representations and tools my research aims to develop optimised visual processes in terms of graphic design, 3D animations, and interactive real-time solutions for biological data. I am currently working on a co-authored book and a number of articles on the subject of visual communication of biological data. As part of exploring alternative ways of representing data, I recently invited David Goodsell from the Scripps Research Institute to the AIAS to paint bacterial cell environments using watercolour.



RIMA OBEID

AIAS COFUND Senior Fellowship

Associate Professor, Department of Clinical Chemistry, University Hospital of the Saarland, Germany

Area of research: Clinical pharmacology

Project title: 'Hidden milestones in the roadmap of shipping cobalamin from food into the cell'

My research in Aarhus is mainly on changes in nutrients uptake and intracellular homeostasis under treatment with the glucose lowering drug, metformin. The project focuses on the effects of metformin on cobalamin that will be tested using a combination of proteomic and metabolomic approaches. The project includes an epidemiological part on the association between using metformin and low plasma cobalamin. Moreover, I am investigating the interaction between folate intake and polymorphisms in folate-metabolizing enzymes as determinants of optimal folate markers in blood.



RONALD FISCHER

AIAS COFUND Senior Fellow

Associate Professor, School of Psychology, Victoria University Wellington, New Zealand

Area of research: Psychology (Cultural and Evolutionary Psychology)

Project title: 'Why seek pain? An exploration of motivations and outcomes of seeking painful experiences in social settings'

I am a cultural psychologist who is interested in the multi-level interactions between psychological and cultural processes. My project examines pain in cultural context, specifically why people voluntarily and publicly seek to inflict pain on themselves and the effects of pain on individuals and the larger community. I am conducting experimental and ethnographic field studies in Thailand. My research is motivated by broader questions on the evolutionary function of extreme ritual, the role of motivation, values and individual agency in the experience of pain and in the maintenance of cultural and religious practices.



SONIA CORIANI

AIAS COFUND Senior Fellow

Associate Professor, Department of Chemical and Pharmaceutical Sciences (DSCF), University of Trieste, Italy

Area of Research: Theoretical and Computational Chemistry

Project title: 'Coupled Cluster Response Methods for Challenging Light-Matter Interactions'

My main research interests gravitate around the concept of molecular properties as key quantities to rationalize the macroscopic behaviour of matter and in the interpretation of experimental observables. At the AIAS, I work on the development of new and highly reliable quantum chemical methodologies to model advanced light-matter interaction phenomena, with the ambition of bridging experimental measurements and theory at a hitherto unprecedented level of detail and accuracy. I focus in particular on spectroscopies in the x-ray region, on photoionization phenomena and on non-linear optical effects in presence of magnetic field sources. My long-term goal is to be able to describe the interaction of atoms and molecules with new light sources, as in XUV/X-ray-, attosecond-, synchrotron- and ion-based chemistry.



STEEN HANNESTAD

Jens Christian Skou Senior Fellow

Professor, Department of Physics and Astronomy, Aarhus University, Denmark

Area of research: Physics and Astronomy

Project title: 'Measuring the invisible'

A theoretical physicist by training, my primary research is in cosmology and particle physics. I am particularly interested in the connection between these two fields and in the use of astrophysics and cosmology as a probe of fundamental particle physics. My research at the AIAS focusses on developing a better understanding of how structures such as galaxies and clusters of galaxies have formed, and how observations of the large scale structure of our Universe can be used to learn more about the dark matter and dark energy which makes up 95% of the Universe.



TOKE THOMAS HØYE

Jens Christian Skou Junior Fellows

Senior Researcher, Department of Bioscience, Aarhus University, Denmark

Area of research: Bioscience

Project title: 'Ecological responses to rapid climate change in the Arctic'

My research addresses the broad question of how species will respond to climate change. I focus on insects and other arthropods which are particularly sensitive to climatic variability. My work is largely based on field work in the Arctic where dramatic climatic changes are currently taking place. My AIAS project is generating new data on phenology, body size and abundance of arthropods. The aim is to estimate how population and sex-specific life history traits vary spatially and temporally and to develop spatial models for community responses to climate change.



ÜMIT AKBEY

AIAS COFUND Junior Fellow

Assistant Professor, Leibniz Institute für Molekulare Pharmakologie Berlin, Germany

Area of research: Structural Biology

Project title: 'Structural Biology of Bacterial Functional Amyloids: In Biofilms, Fibril Formation and Infection'

I aim to determine unknown structures of amyloidogenic proteins forming the scaffold of infectious bacterial biofilms. These biofilms are the protecting armor of bacteria, resulting in difficulties to treat chronic infections. I will determine atomic-resolution structure of these proteins by using advanced Nuclear Magnetic Resonance spectroscopy. I will understand details on how bacteria can survive antibiotic treatment and become more infectious, and possible ways of preventing biofilm formation in the associated diseases. Moreover, I will answer fundamental scientific questions of great interest, such as, fibril formation in function and disease and the role of amyloids in biofilms.



XUHUI DONG

AIAS COFUND Junior Fellow

Associate professor, Chinese Academy of Sciences, Nanjing Institute of Geography and Limnology, China

Area of research: Environmental change and geography

Project title: 'Quantitative assessment on ecological changes and the contribution from climate in remote Greenland lakes: a multidisciplinary study'

My research here at the AIAS is using multidisciplinary methods (biological and isotope signals preserved in fossil chironomids) to quantitatively track environmental change across various spatiotemporal scales based on Greenland lake sediments. For a global implication, the research findings in this project will serve for comparison purpose with other aquatic ecosystems (i.e. strong human impacted Yangtze shallow lakes in China) to understand different ecological trajectories and mechanism of environmental changes. Currently, I am making progress on the chironomid taxonomy identification. Meanwhile, several papers based on existing data are in preparation or have been published.



AIAS FELLOWS' SEMINAR

The AIAS Fellows' Seminars are lectures given by the AIAS fellows and speakers recommended by the AIAS fellows. At these seminars, researchers from diverse fields of studies and across main academic areas and traditions are brought together, giving researchers an opportunity to meet with new horizons and angles on their research. The Fellows' Seminar is the primary meeting ground for Fellows, AU researchers and other collaborators and are open to the public.

<http://aias.au.dk/aias-fellows-seminar>



AIAS FELLOWS' SEMINARS – AUTUMN 2015

Venue and time: 2:15 pm. at Aarhus Institute of Advanced Studies, Building 1632, Fellows' Auditorium

- | | |
|-------------------|--|
| 7 September 2015 | Christian Ulrik Andersen, AIAS Fellow
What is interface criticism? On aesthetics, criticism and the post-digital |
| 14 September 2015 | Xuhui Dong, AIAS Fellow
Back to the future: Paleolimnology and its application in understanding long-term environmental changes |
| 28 September 2015 | Orietta Dora Cordovana, AIAS Fellow
Ancient Ecosystems. The Roman Frontier in Britain and North Africa |
| 5 October 2015 | Machteld Verzijden, AIAS Fellow
Learned preferences. The evolutionary dynamics of mate choice |
| 19 October 2015 | Djuke Veldhuis, AIAS Fellow
Paradise lost? Measuring the social, psychological and physiological effects of rapid modernisation in remote human populations |
| 26 October 2015 | Karin Lykke-Hartman, AIAS Fellow
Modeling development. Oocytes, embryos, cell fate, gene expression |
| 9 November 2015 | Óscar José Martín García, AIAS Fellow
Compromising Allies. The United States and Military Dictatorships during the Cold War: The Spanish Case |
| 23 November 2015 | Ronald Fischer, AIAS Fellow
The paradox of shared suffering: Tales (and numbers) about pain, ritual and culture |
| 30 November 2015 | Paul Denton, AIAS Fellow
Search for a Cure. Characterizing and Targeting Persistent HIV Reservoirs in Patients |
| 7 December 2015 | Alexander Panayotov, AIAS Fellow
Jews and Jewish Communities in the Early Byzantine Balkans and the Aegean. Communal organisation and everyday life |

FELLOWS' PUBLICATIONS AND ACTIVITIES



FELLOWS' PUBLICATIONS AND ACTIVITIES

PUBLICATIONS – BOOKS, BOOK CHAPTERS

Cheryl Mattingly is the author of the book *Moral Laboratories: Family Peril and the Struggle for a Good Life*. University of California Press, 3 October 2014.

Consuelo Manetta published two book chapters 'Il cosiddetto sepolcro a tempietto'; 'Il cosiddetto sepolcro di Pompeo' in: De Angelis, D. (editor), Albano Laziale. *Guida al circuito archeologico monumentale*, Albano Laziale 2017. ISBN 978-88-90938-93-1.

Alexander Panayotov is the author of 'Jews and Jewish Communities in the Balkans and the Aegean until the Twelfth Century: A Survey' (pp. 54-76) in: Aitken, J. and Carelton-Paget, J. (eds): *The Judaeo-Greek Tradition in Antiquity and Byzantium*. Cambridge University Press, 2014.

Jürgen Elvert is co-editor of the book: *Encore ces chers voisins: Le Benelux, l'Allemagne et la France aux XIXe et XXe siècles*. Franz Steiner Verlag, November 2014.

Karen ní Mheallaigh is the author of the book: *Reading Fiction with Lucian: Fakes, Freaks and Hyperreality*. Cambridge University Press, November 2014.

Georg Sørensen published the chapter 'Liberalism of Restraint and Liberalism of Imposition: Liberal Values and World Order in the New Millennium' in: Fred Dallmayr, M. Akif Kayapinar, Ismail Yalacı (eds) *Civilizations and World Order. Geopolitics and Cultural Difference*. New York: Lexington Books, 2014.

Jürgen Elvert published the book chapter 'Central Europe' in: Thomas Ertl et al (eds.) *Europa als Weltregion: Zentrum, Modellfall oder Provinz?* Vienna: New academic Press, 1 December 2014.

Georg Sørensen published the book chapter 'Danmarks globale udfordringer' (Denmark's global challenges) in: Mark von Rosing et al (red.) *Danmarks fremtid*. Copenhagen: Forskningsforlaget, pp. 132-36.

Georg Sørensen published the book chapter 'Globalization and the nation-state' in *Comparative Politics*. Third Edition, Oxford University Press, UK, 2014.

Jürgen Elvert is author of the book chapter 'The 'New European Order' of National Socialism. Some Remarks on Its Sources, Genesis and Manifestations' in: Dieter Gosewinkel (Ed.): *Anti-liberal Europe. A Neglected Story of Europeanization*. Berghahn: New York, Oxford December 2014.

Joseph Scarpaci edited the book section 'Caribbean' in: *Handbook of Latin American Studies*, Vol. 69. Library of Congress Publication, 2014.

Lotte Philipson is author of the chapter 'Computerens plads i samtidskunst: fra et teknisk til et æstetisk paradigme' ['The place of the computer in contemporary art: from a technical to an aesthetic paradigm'] in: *Cybermuseumologi* (eds: Larsen et al). Aarhus University Press, 2015.

PUBLICATIONS – JOURNALS

Karl-Erik Andersson published the article 'Words of wisdom. Re: Tissue engineering of the bladder: reality or myth? A systematic review'. In: *Eur Urol*. September 2014; 66(3):593

Toke Thomas Høye co-published the article 'Phenological mismatch with abiotic conditions - implications for flowering in Arctic plants' in: *Ecology*, September 2014.

Lotte Philipson published the article 'Politisk samtidskunst som i... – Samtidskunstens forskellige politiske dimensioner' in: *Passepartout – skrifter for Kunsthistorie* (pp. 114-141), Vol. 19, Issue 35, 2014.

David Petrosyan published in collaboration with Klaus Mølmer the article 'Binding Potentials and Interaction Gates between Microwave-Dressed Rydberg Atoms' in: *Phys. Rev. Lett.* 113, 123003, September 2014.

Rikke Schmidt Kjærsgaard edited the journal *Biozoom* Vol 3, 2014 on Scientific Visualization.

Rikke Schmidt Kjærsgaard published the editorial 'You need to see this: Pushing the boundaries of scientific visualization' in: *Biozoom* Vol 3, 2014.

Lotte Philipson co-edited with Jacob Lund *The Nordic Journal of Aesthetics* no. 47, 2014.

Karl-Erik Andersson co-authored the article 'Protective effect of tadalafil on the functional and structural changes of the rat ventral prostate caused by chronic pelvic ischemia' in: *Prostate*, 18 October 2014.

Anja Kamp and Peter Stief hosted the Frontiers Research Topic 'Eukaryotic Microbes Store Nitrate for "Breathing" in Anoxia' in: *Frontiers of Microbiology*, section Aquatic Microbiology, October 2014.

Karl-Erik Andersson is the co-author of the article 'Chronic bladder ischemia and oxidative stress: New pharmacotherapeutic targets for lower urinary tract symptoms' in: *Int J Urol*, 22 October 2014.

Karl-Erik Andersson published the article 'Potential of stem cell treatment in detrusor dysfunction' in: *Adv Drug Deliv Rev*, 23 October 2014.

Joseph Scarpaci published the article 'Material and cultural consumption in Cuba: Reference groups for the new millennium' in: *Journal of Cultural Geography* Vol. 31 No. 3 (Fall), 357-259.

Karl-Erik Andersson published the article 'The use of pharmacotherapy for male patients with urgency and stress incontinence' in: *Curr Opin Urol*, November 2014; 24(6):571-7.

Karl-Erik Andersson published the article 'Mechanisms of ATP release – future therapeutic targets?' in: *BJU Int*, 10 November 2014.

Karl-Erik Andersson is the co-author of the article 'Long-term caloric restriction in rats may prevent age-related impairment of in vitro bladder function' in: *J Urol*, 11 November 2014.

Joseph L. Scarpaci published the review 'Constitutional Modernism: Architecture and Civil Society in Cuba, 1933-1959' in: the *New West Indian Guide* 88 (2014), 357-359.

Morten Kyndrup published the review 'Med døden i Indien. Længst ude og inderst inde', in: *Standart* no. 3, vol. 28, 2014.

Rima Obeid is co-author of the article 'Vitamin B status in patients with type 2 diabetes mellitus with and without incipient nephropathy' published in: *Diabetes Res Clin Practice*, 107 (1).

Morten Kyndrup published the review 'Mangfoldigheden, ligegyldigheden? På togtur en dag i livet', in: *Standart* no. 4, vol. 28, 2014.

Toke T. Høye co-authored the paper entitled 'Habitat-specific effects of climate change on a low-mobility Arctic spider species' in: *Polar Biology*, 2014.

Steen Hannestad published the paper 'Neutrino physics from Cosmology', Proceedings of Science EPS-HEP2013 (2014) 519.

Toke T. Høye co-authored the paper entitled 'Oviposition site selection of an endangered butterfly at local spatial scales' in: *Journal of Insect Conservation*, 2014.

Rima Obeid is the co-author of the article 'Selected Nutrients and Their Implications for Health and Disease across the Lifespan: A Roadmap' in: *Nutrients*, 2014 Dec 22; 6(12):6076-94.

Jesper Levinsen is co-author of the paper 'High-temperature limit of the resonant Fermi gas' in: *Physical Review A*, 8 January 2015.

Xuhui Dong co-authored the article 'Poverty alleviation strategies in eastern China lead to critical ecological dynamics' in: *Science of The Total Environment*, 2015, Volume 506-507, pp. 164-81.

Karl-Erik Andersson published the article 'Intraprostatic injections for lower urinary tract symptoms treatment' in: *Curr Opin Urol*, January 2015; 25(1):12-8.

Alfonso Blázquez-Castro is first author of the article title 'In vitro human cell responses to a low-dose photodynamic treatment vs. mild H₂O₂ exposure' in: *Journal of Photochemistry & Photobiology, B: Biology*, (2015), vol. 143, pp. 12-19, 9 January 2015.

Morten Kyndrup published the review 'Planken ud. Thomas Bobergs Fantombillede viser vilje til former og formernes vilje' in: *Salon* 55, 12 January 2015.

Rima Obeid is author of the invited commentary 'Serum Unmetabolized Folic Acid: The Straw That Broke Dihydrofolate Reductase's Back?' in: *The Journal of Nutrition*, jn.114.207589, 21 January 2015.

Steen Hannestad co-authored the article 'How secret interactions can reconcile sterile neutrinos with cosmology' in: *Phys.Rev.Lett.* 112, 031802, 22 January 2015.

Jan Alber is the co-author of the article 'Creative Indigenous Self-Representation in Humorous Australian Popular Culture as a Vital Communication Channel for Refiguring Public Opinion' in: *Anglistica: An Interdisciplinary Journal* 17.2 (2013)[2015] 65-75 (special issue, ed. Bill Ashcroft and Katherine E. Russo).

Martin Holmstrup is co-author of the article 'Membrane properties of *Enchytraeus albidus* originating from contrasting environments: a comparative analysis' in: *Journal of Comparative Physiology B*, sVol. 185, Issue 4.

Ronald Fischer is co-author of the article 'What kinds of value motives guide people in their moral attitudes? The role of personal and prescriptive values at the culture level and individual level' in: *Journal of Cross-Cultural Psychology*, 46, 211-228.

Sonia Coriani is co-author of the article 'TD-DFT Investigation of the Magnetic Circular Dichroism Spectra of Some Purine and Pyrimidine Bases of Nucleic Acids' in: *J. Phys. Chem. A*, 20 February 2015.

David Petrosyan is the co-author of the paper 'Engineering the dynamics of effective spin-chain models for strongly interacting atomic gases' in: *Phys. Rev. A* 91, 023620, 2015.

David Petrosyan is co-author of the paper 'Quantum technologies with hybrid systems' in: *PNAS*, 3 March 2015 (1419326112).

Rima Obeid is co-author of the article 'Folate status and health: challenges and opportunities' in: *Journal of Perinatal Medicine* 2015. DOI 10.1515/jpm-2014-0346.

Rikke Schmidt Kjærgaard published the book review 'The Case of the Green Turtle: An Uncensored History of a Conservation Icon by Alison Rieser' in: *Journal of Latin American Geography*, Vol. 14, March 2015.

Sonia Coriani is co-author of the paper 'A study of the valence shell electronic structure and photoionisation dynamics of s-triazine' in: *Chemical Physics, Volumes 450–451*, March 2015.

Rima Obeid is first author of the paper 'Cobalamin coenzyme forms are not likely to be superior to cyano- and hydroxyl-cobalamin in prevention or treatment of cobalamin deficiency' in: *Mol Nutr Food Res*, 28 March 2015.

Sonia Coriani is co-author of the paper 'Circular and linear magnetic birefringences of xenon at $\lambda = 1064$ nm' in: *The Journal of Chemical Physics*, 142, 124313 (2015).

David Petrosyan is first author of the paper 'Filtering single atoms from Rydberg-blockaded mesoscopic ensembles' in: *Physical Review A*, (Vol.91, No.4), 6 April 2015.

Alfonso Blazquez-Castro is first co-author of the paper 'Direct 765 nm Optical Excitation of Molecular Oxygen in Solution and in Single Mammalian Cells' in: *Journal of Physical Chemistry B* 119(17): 5422-5429, 9 April 2015.

Rikke Schmidt Kjærgaard published the review 'Data visualization: Mapping the topical space' in *Nature* 520, 16 April 2015.

Joseph Scarpaci published the article 'A Tale of Two Cities: Hialeah's Economic Ties with Havana' in: *Focus on Geography* Vol. 58, Issue 2, pp.49-58, 20 April 2015.

Paul W. Denton is co-author of the article 'Histone Deacetylase Inhibitor Romidepsin Inhibits de novo HIV-1 Infections' in: *Antimicrob Agents Chemother*, 20 April 2015.

Julieta Goenaga is co-author of the paper 'Male seminal fluid substances affect sperm competition success and female reproductive behavior in a seed beetle' in: *PlosOne*, 20 April 2015.

Rima Obeid co-authored the article 'Folic acid causes higher prevalence of detectable unmetabolized folic acid in serum than B-complex: a randomized trial' in: *European Journal of Nutrition* DOI 10.1007/s00394-015-0916-z.

Jan Alber is the author of the review 'Christoph Bode and Rainer Dietrich: Future Narratives: Theory, Poetics, and Media-Historical Moment' in: *Anglistik* 26.1 (2015): 180-81.

Jesper Levinsen is first-author of the article 'Strongly interacting two-dimensional fermi gases' in: *Annual Review of Cold Atoms and Molecules*, Vol. 3, May 2015.

Morten Kyndrup published the review 'Det er overfladerne, jeg længes efter. Spredt, sært, smukt hos Amalie Smith', in: *Standart* 1, 2015.

Joseph Scarpaci reviewed the book *Tourism and Oil: Preparing for the Challenge* by S. Becken in: *Energy research & Social Science*, 5 May 2015.

Take T. Høye is co-author of the paper 'Ecological specialization matters: long-term trends in butterfly species richness and assemblage composition depend on multiple functional traits' in: *Diversity and Distributions: A Journal of Conservation Biogeography*, 6 May 2015.

Marie Braad Lund is co-author of the article 'Evolution of the tripartite symbiosis between earthworms, Verminephrobacter and Flexibacter-like bacteria' in: *Frontiers of Microbiology*, 27 May 2015.

Martin Holmstrup is co-author of the article 'Long-term multifactorial climate change impacts on mesofaunal biomass and nitrogen content' in: *Applied Soil Ecology*, Vol 92.

Jan Alber published the article 'The Social Minds in Factual and Fictional We-Narratives of the Twentieth Century' in: *Narrative*, Vol. 23, 2 May 2015.

Alfonso Blazquez-Castro is co-author of the paper 'Reliable screening of dye phototoxicity by using a *Caenorhabditis elegans* fast bioassay' in: *PLoS ONE* 10(6), June 2015.

Rima Obeid is first-author of the article 'Preventable spina bifida and anencephaly in Europe' in: *Birth Defects Research Part A: Clinical and Molecular Teratology*, July 2015.

EXTERNAL ACADEMIC ACTIVITIES

Karl-Erik Andersson participated in the conference 'Effects of chronic pelvic ischemia on bladder function', Department of Urology, University of Zürich, Universitätsspital Zürich, 2 September 2014, Zurich, Switzerland.

Rane Willerslev participated in the Malinowski workshop in the Malinowski house, 2-6 September, organized by Bergen University, the Italian Alps, Italy.

Karl-Erik Andersson participated in the 70th Annual meeting of the Swiss Society of Urology: 'New aspects in physiology of the lower urinary tract', 3-5 September 2014, Montreux, Switzerland.

Lotte Philipsen attended the Ars Electronica Festival, 4-7 September 2014, Linz, Austria.

Rane Willerslev participated in the education collaboration 'Arctic network', visiting University of Reykjavik, Iceland and University of Greenland, Nuuk, Greenland, 7-12 September 2014.

Rane Willerslev attended the hunter-gatherer conference 'Chase and Game- Hunting and gathering in transition', 18-21 September 2014, Völk-erkundermuseum Universität Zürich, Ballenberg, Switzerland.

Lotte Philipsen visited the London Design Festival special weekend on Digital Design and the exhibition 'Disobedient Objects' at Victoria & Albert Museum, 19-21 September 2014, London, UK.

David Petrosyan gave the invited talk 'Long-range binding potentials and robust quantum gate between microwave-driven Rydberg atoms' at the Second International Workshop on Ultracold Rydberg Physics, 7 October 2014, Recife, Brazil.

Morten Kyndrup gave the keynote speech 'Og? Kunsten og det offentlige rum' at 'Kunst, sted og mennesker', 8 October 2014 at the Danish Arts Foundation conference on art in public spaces, Vejle, Denmark.

Georg Sørensen participated in the European Research Council, Panel SH2, meeting 14 -17 October 2014, Brussels, Belgium.

Jessica Shadian participated in a Munk-Gordon Arctic Speaker Series on 'Canada and the Arctic Council', 15 October 2014, Munk School of Global Affairs, Toronto, Canada.

Jesper Fredenslund Levinsen gave the presentation entitled 'Strong coupling ansatz for the one-dimensional Fermi gas in a harmonic potential', 16 October 2014, Australian National University, Canberra, Australia.

Karl-Erik Andersson attended the Annual Meeting of the International Continence Society and gave a lecture on 'Bladder Control: Alternative Pharmacological Targets'. He was also awarded with the ICS 'Lifetime Achievement Award', 20-24 October 2014, Rio de Janeiro, Brazil.

Jan Alber gave a lecture entitled 'How to Analyse a Cinematic Narrative: Concepts of Film Narratology', 22 October 2014, Aarhus University, Denmark.

Jesper Fredenslund Levinsen gave the talk 'Strong coupling ansatz for the one-dimensional Fermi gas in a harmonic potential', 23 October 2014, University of Cambridge, UK.

Amy Iler attended the Scandinavian Pollination Ecology Annual meeting, 23-26 October 2014, Tovetorp, Sweden.

Georg Sørensen gave the talk 'World Order 2014', 28 October 2014, Favrskov Gymnasium, Denmark.

Jessica Shadian gave a presentation at The Transatlantic Science Week 'The Arctic: Societies, Sustainability, and Safety' in the session 'Arctic Safety and Cross Border Knowledge Needs', 26-29 October 2014, Toronto, Canada.

Jessica Shadian participated in the workshop 'Arctic Coast Guard Forum: Maritime Collaboration for a Changing Region' held by the Munk-Gordon Arctic Security Program, a partnership of the Munk School of Global Affairs and the Walter and Duncan Gordon Foundation, and the Norwegian Institute for Defence Studies, 29 October 2014, Toronto, Canada.

Jessica Shadian gave the paper 'Community-based Monitoring and Regional Arctic Governance - shall the twain ever meet?' on the panel: 'Security of the Arctic' at the Arctic Circle Conference 30 October - 2 November 2014, Reykjavik, Iceland.

Rikke Schmidt Kjærgaard co-organised the Science Fair for the Young Academy Science Club, 3 November 2014, Interdisciplinary Nanoscience Center, Aarhus University, Denmark.

Jürgen Elvert participated as co-organizer in a board meeting related to an exhibition project on 'Europe and the Sea', 4 November 2014, Deutsches Historisches Museum, Berlin, Germany.

Jesper Fredenslund Levinsen gave the talk 'Strong coupling ansatz for the one-dimensional Fermi gas in a harmonic potential', 5 November 2014, London Centre for Nanotechnology, UK.

Jürgen Elvert co-organized and spoke at the 'Verleihung des Förderpreises der Stiftung für Schifffahrts- und Marinegeschichte', 5 November 2014, Bankhaus Sal, Oppenheim, Berlin, Germany.

Jürgen Elvert participated in the conference 'Maritime Convention', organized by the Deutsches Maritimes Institut (Bonn), 5 November 2014, Landesvertretung Schleswig-Holstein, Berlin, Germany.

Rikke Schmidt Kjærgaard participated in the Annual Seminar of the Young Academy, 5-6 November 2014, The Royal Danish Academy of Sciences and Letters, Copenhagen, Denmark.

Bjørn Panyella Pedersen gave the talk 'Proton driven Symport from a Structural Perspective: Perspectives from the eukaryotic phosphate transporter PiPT', 6 November 2014 at CoLuAa - 23rd Annual Meeting of the Crystallographic Societies in Copenhagen, Lund and Aarhus.

Jürgen Elvert participated as president at a board meeting of the Ranke-Gesellschaft, Vereinigung für Geschichte im öffentlichen Leben e.V., 6 November 2014, Berlin, Germany.

Joseph L. Scarpaci went on a research trip to Miami and Cuba to gather remittance data and expenditures among Cuban-Americans and Cubans, respectively. While in both sites, he delivered a series of lectures to the Archaeological Institute of America on heritage promotion strategies, the Cuban economy, and curatorial representations of Cuban culture. The latter was delivered at the Provincial Museum of Ciego de Avila, Cuba, 6-17 November 2014.

Jürgen Elvert participated as organizer in a workshop related to an exhibition project on 'Europe and the Sea', 6 November 2014, Deutsches Historisches Museum, Berlin, Germany.

Bjørn Panyella Pedersen gave the talk 'The Gender Gap from a male viewpoint', The Danish Research Foundation's Annual meeting 2014, 7 November 2014, Denmark.

Jürgen Elvert, participated as organizer and speaker at a conference on 'Europa, das Meer und die Welt. Agenten, Akteure, Abenteurer', 7-8 November 2014, Deutsches Historisches Museum, Berlin.

Anja Kamp gave the lecture 'Diatoms – photosynthetic protists can survive without light and oxygen' on 12 and 13 November 2014 at the Institute for Bioscience, Microbiology, Aarhus University, Denmark.

Jan Alber participated in a network meeting of the research group 'Medieval Narratology', 14-15 November 2014, University of Bochum, Germany.

Jessica Shadian attended the The Canadian Aboriginal Mineral Association annual conference, 16-18 November 2014, Toronto, Ontario, Canada.

Georg Sørensen participated as chair in the meeting of the Council for Development Policy, 17 November 2014, The Ministry of Foreign Affairs, Copenhagen, Denmark.

Rane Willerslev gave the paper 'Travelling Temporalities' at the conference 'Exhibitions and Experiments', 19-21 November 2014, University of Oslo, Kulturhistorisk Museum, Norway.

Jesper Fredenslund Levinsen gave the talk 'Strong coupling ansatz for the one-dimensional Fermi gas in a harmonic potential', 20 November 2014, Université Paris Sud XI, Orsay, France.

Rikke Schmidt Kjærgaard organised a workshop on data visualization with artist Mette Høst, 21 November 2014, Aarhus Institute of Advanced Studies, Denmark.

Jan Alber gave a talk 'The Disembodiment of the Narrative Instance in Postmodern Fiction' at the workshop *Disembodied Voices – Unembodied Narration*, 21-22 November 2014, Freie Universität Berlin, Germany.

Consuelo Manetta gave the talk 'I pavimenti delle regiones XI e XII' at the workshop 'Per un corpus dei pavimenti antichi di Roma e del Lazio. Primi bilanci e prospettive di ricerca', 24 November 2014, Sapienza University, Rome, Italy.

Morten Kyndrup gave the talk 'Aarhus Institute of Advanced Studies a very young and yet very classical IAS' at the UBIAS Directors' Conference 'Rising New Perspectives in an Age of Globalization: Challenges and Prospects', 27-30 November, National Taiwan University, Taiwan.

Rane Willerslev participated as a moderator on the Arctic Offshore Conference, 27 November 2014, Aarhus Institute of Advanced Studies, Denmark.

Jessica Shadian gave the talk 'Hybrid Governance: Arctic Offshore Oil and gas and coastal communities' at the Arctic Offshore conference, 27 November 2014, organised by the Arctic Research Center, Aarhus University, Denmark.

Jürgen Elvert gave a talk at the Maritime History Conference "A safe place for Ships: Cork, Ireland, Europe, and the Sea", 28-29 November 2014, University College Cork, Ireland.

Jesper Fredenslund Levinsen gave the talk 'Strong coupling ansatz for the one-dimensional Fermi gas in a harmonic potential' at the conference 'Danish-Sino Workshop on Strongly Interacting Cold Atomic Gases', 1-5 December 2014, Aarhus University/Sandbjerg, Denmark.

Take T. Høye gave the talk 'Arctic Insect herbivory – current knowledge and future directions' at the Arctic Biodiversity Congress, 2 December 2014, Trondheim, Norway.

Rane Willerslev gave the invited paper 'Is there a place for faith in Anthropology?', 2 December 2014, Dept. of Anthropology, University of Hamburg, Germany.

Take T. Høye hosted a session on arctic arthropods at the Arctic Biodiversity Congress, 3 December 2014, Trondheim, Norway.

Jürgen Elvert participated and chaired a panel at the conference 'Wahrnehmung des Meeres vom 16.-20. Jahrhundert: Forschungsperspektiven', Workshop des Deutschen Schiffahrtsmuseums Bremerhaven/Leibniz-Institut für deutsche Schiffahrtsgeschichte, 3-4 December 2014, Deutsches Schiffahrtsmuseum, Bremerhaven, Germany.

Amy Iler gave the presentation 'Consequences of intraspecific variation in flowering phenology: Evidence for different flowering strategies' at the joint British and French Ecological Society meeting, 9-12 December 2014, Lille, France.

Jan Alber gave the talk 'Ideology and Form: The Experimentalism of Recent Australian and Indian-English Prose Narratives', 10 December 2014, The Narrative Research Lab, Aarhus University, Denmark.

Jesper Fredenslund Levinsen gave the talk 'Strong coupling ansatz for the one-dimensional Fermi gas in a harmonic potential', 10 December 2014, Institute for Photonic Sciences, Barcelona, Spain.

Rane Willerslev gave the paper 'Is there a place for faith in Anthropology?' in collaboration with Christian Suhr, 11 December 2014, Section for Biblical Studies, Aarhus University.

Rane Willerslev participated in the ERC project meeting 'Comparative Anthropologies of Revolutionary Politics' and gave the lecture 'Asceticism and the formation of revolutionary selves', 15 December 2014, University College London, UK.

Toke T. Høye participated in the Annual Meeting of the Arctic Research Centre, 16-17 December 2014, Sandbjerg Manor, Denmark.

Rane Willerslev participated in the Annual Meeting of the Arctic Research Centre, 16-17 December 2014, Sandbjerg Manor, Denmark.

Jürgen Elvert participated in the conference '55. Historisch-Taktische Tagung der Marine', 6-8 January 2015, Rostock-Hohe Dünen, Germany.

Bjørn Panayella Pedersen gave the talk 'Initiating Heavy-atom Based Phasing by Multi-Dimensional Molecular Replacement' at the conference 'CCP4 study Weekend - Advances in Experimental Phasing', 7-9 January 2015, Nottingham University, UK.

Rikke Schmidt Kjærgaard participated in the Young Academy's monthly meeting, 8 January 2015, The Royal Danish Academy of sciences and Letters, Copenhagen, Denmark.

Mads Vaarby Sørensen organised and participated in the 'Kiel Aarhus Renal Epithelial Physiology Workshop', 16-17 January 2015, Aarhus Institute of Advanced Studies, Denmark.

Anja Kamp gave the research seminar 'Diatoms in darkness and anoxia', 19 January 2015, Institute for Bioscience, Microbiology, Aarhus University, Denmark.

Rikke Schmidt Kjærgaard gave the Young Academy PEP-talk 'Molekylær Hollywood: Videnskab I 3D', 22 January 2015, AIAS, Denmark.

Jürgen Elvert organised and participated in the workshop 'European Ports Repositories of European Cultural heritage and workshops of European Civilisation', 22-23 January 2015, Aarhus Institute of Advanced Studies, Denmark.

Alfonso Blázquez-Castro participated in the 11th Aarhus Winter Meeting 'Trends in Modern Chemistry', Department of Chemistry, Aarhus University, Denmark.

Jürgen Elvert participated and panel-chaired at the conference 'History, memory and European integration from the point of view of EU-transatlantic relations', 26-28 January 2015, Royal Monastery of Yuste, Cuacos de Yuste, Spain.

Lotte Philipson visited the 'Transmediale Festival', investigating new connections between art, culture, and technology, 28 January – 1 February 2015, Berlin, Germany.

Jessica Shadian participated as a commenter at the conference 'Symposium on Arctic Governance', 30-31 January 2015, Irvine School of Law, University of California, the US.

Jürgen Elvert participated as consultant at a workshop on an Oral History Programme of the European Council, organized by the European Council on 5-6 February 2015, Brussels, Belgium.

Jan Alber gave the guest lecture 'Transparent Minds in the Movies', 6 February 2015, University of Trier, Germany.

Amy Iler gave a research presentation at the USA National Phenology Network entitled 'Plasticity in Flowering Phenology', 9 February 2015, United States Geological Survey, Tucson, Arizona.

Consuelo Manetta gave the talk 'The Different Faces of the Sky. Decorative culture, floral, astral and mythological representations within figural coffered ceilings', 12 February 2015, The Aarhus Seminars in Classical Studies, Aarhus University, Denmark.

Amy Iler gave the research presentation 'Climate-induced shifts in biological timing: Implications for population dynamics and species interactions', 12 February 2015, Rochester Institute of Technology, Rochester, New York, USA.

Joseph L. Scarpaci gave a lecture on iconic branding to the Marketing Anthropology program in the College of Business at Social Sciences, 16 February 2015, University of Southern Denmark, Odense, Denmark.

Joseph L. Scarpaci gave a lecture before the CPN NGO, Nordic Latin American Network, titled 'New Horizons: Political and Economic Outlook in Cuba in 2015', 18 February 2015, Copenhagen, Denmark.

Joseph L. Scarpaci gave the talk '¿Nuevos horizontes? An Economic + Political Outlook for Cuba in 2015', 19 February 2015, NETLA (network for Latin-american studies), Copenhagen, Denmark.

Paul W. Denton participated in the 'Conference on Retroviruses and Opportunistic Infections' on 23-26 March 2015, Seattle, WA, USA.

Amy Iler gave the research seminar 'Climate-induced shifts in flowering phenology: implications for population dynamics and species interactions', 24 February 2015, Purdue University, Indiana, USA.

Joseph L. Scarpaci gave the lecture 'Rapprochement between Cuba and Washington: The Economic Ties that Bind', 24 February 2015, Dept. of Political Science, Aarhus University, Denmark.

Jürgen Elvert participated at a board meeting of the 'Stiftung zur Förderung der Schifffahrts- und Marinegeschichte', 26 February 2015, Bonn, Germany.

Anja Kamp presented the poster 'Contribution of diatoms to anaerobic nitrate metabolism in sinking aggregates', 26 February 2015, the ASLO Meeting, Granada, Spain.

Joseph L. Scarpaci gave the lecture 'The Cultural and Economic Setting of Caribbean Migration: An Example from the Cuban Diaspora', 27 February 2015, Comparative Literature, Aarhus University, Denmark.

Ronald Fischer went on a field trip Southern Thailand from 28 February - 6 April 2015 to conduct an ethnographic study at the annual Lim Ko Niao celebration in Pattani, Thailand. He also worked with staff at the Prince of Songkhla University campuses in Hatyai and Kathu/Phuket to develop projects on a) the social dynamics of religious ritual and b) value transmission and maintenance in transforming societies. Moreover, he gave a presentation to staff and students at the Human and Social Development Program, Faculty of Liberal Arts, Prince of Songkla University, Thailand.

Amy Iler gave the talk 'Climate-induced shifts in flowering phenology: implications for population dynamics and species interactions' at a research seminar, 2 March 2015, Utah State University, USA.

Djuke Veldhuis gave the talk 'Stress and happiness: Adventures in human adaptability', 4 March 2015, The Artic Seminar Series, Aarhus University, Denmark.

Mads V. Sørensen presented the poster 'Reduced renal K⁺ excretion with compensatory hyperaldosteronism in KCa1.1 channel 2 -subunit KO mice' at the 94th Annual Meeting of the German Physiological Society, 5-7 March 2015, Magdeburg, Germany.

Ronald Fischer gave the presentation 'Cultures in ASEAN Countries' for the Human and Social Development Program, 6 March 2015, Faculty of Liberal Arts, Prince of Songkla University, Hatyai, Thailand.

Amy Iler presented the talk 'The role of phenotypic plasticity in shifted flowering phenology under climate change' at the 4th Oikos Annual Meeting, 6 March, AIAS, Denmark.

Take T. Høye gave the invited talk 'Species responses to arctic climate change - the devil is in the detail' at the 4th Oikos Annual Meeting, 6 March, AIAS, Denmark.

Jan Alber presented the paper 'Ideology and Form: The Negotiation of Aboriginal Peoples in Contemporary Australian Prose Narratives' at the Narrative Conference organized by the ISSN, 6 March 2015, Chicago, USA.

Rima Obeid gave the presentation 'Diagnosing vitamin B12 deficiency in the clinic and in the general population' at the 52. Scientific Conference of the German Society of Nutrition, Halle/Saale, Germany.

Alexander Panayotov presented the paper 'Jewish everyday life in the late-Roman and early Byzantine Balkans' at the Seminar on Jewish History and Literature in the Graeco-Roman Period, 10 March 2015, Oxford Centre for Hebrew and Jewish Studies, University of Oxford, the UK.

David Petrosyan co-organized the AIAS Workshop 'Rydberg Quantum Simulators' and gave the talk 'Spatial correlations of Rydberg excitations in resonantly driven lattice gas', 11-13 March 2015, Aarhus Institute of Advanced Studies, Denmark.

Orietta Cordovana gave the talk 'Marginal areas and the development of the first western territorial state', 12 March 2015, The Aarhus Seminars in Classical Studies, Aarhus University, Denmark.

Jessica Shadian discussed her recent book '*The Politics of Arctic Sovereignty: Oil, Ice, and Inuit Governance, the first in-depth account of the Inuit Circumpolar Council (ICC)*', 16 March 2015, Arctic Speakers Series, Munk School of Global Affairs, Toronto, Ontario, Canada.

Karen Ni Mheallaigh gave the presentation 'Meet the Moonmen... Astrobiological speculation in the ancient world', 18 March 2015, the Stellar Astrophysics Centre (SAC) at Aarhus University, Denmark.

Consuelo Manetta gave the talk 'Rivestimenti pavimentali con raffigurazioni astrali. Indagine su un microcosmo musivo', 18-21 March 2015, at the XXI Colloquio AISCOM, Associazione Italiana per lo Studio e la Conservazione del Mosaico, Reggio Emilia, Italy.

Karl-Erik Andersson participated in the European Association of Urology (EAU) Annual meeting, 20-24 March 2015 and gave the presentation 'Parasympathetic and sympathetic systems and the lower urinary tract', Madrid, Spain.

Djuke Veldhuis gave the talk 'Partnership for enhanced engagement in Research (PEER)' and lead a workshop, 21-26 March 2015, The National Academy of Science and US Global Development Lab programme, Lima, Peru.

Jan Alber gave the talk 'Indigeneity in Contemporary Australian Literature and Culture' at Fellows' Seminar, 23 March 2015, Aarhus Institute of Advanced Studies, Denmark.

Paul Denton gave the presentation 'What can animal model tell us about HIV latency' at the symposium 'The search for HIV - Challenges and future perspectives', 26 March 2015, Rigshospitalet, Copenhagen, Denmark.

Jan Alber organized the workshop 'Ideology and Form in Anglophone Narrative' and gave the paper 'Reading of Salman Rushdie's Midnight's Children', 26-27 March 2015, Aarhus Institute of Advanced Studies, Denmark.

Jürgen Elvert gave the introductory lecture for the lecture series on 'Acting and negotiating in European (Integration-)History', 8 April 2015, University of Cologne, Cologne, Germany.

Jessica Shadian gave the talk 'Rethinking Arctic Sovereignty: Carving out a Political Space for Indigenous Communities in Arctic and Global Governance', 8 April 2015, Munk School of Global Affairs, University of Toronto, Canada.

Ronald Fischer gave the presentation 'The ambiguous role of extreme rituals in the context of intergroup tensions: Reflections on the Lim Ko Niao Celebrations in Southern Thailand', 9 April 2015 at Religion, Cognition and Culture research unit, Dept. of Culture and Society, Faculty of Arts, Aarhus University, Denmark.

Jürgen Elvert attended and chaired the annual meeting of the editorial and scientific boards of the journal *Historische Mitteilungen*, 10 April 2015, Institute of European History, Mainz, Germany.

Rikke Schmidt Kjærgaard organised the workshop 'How to plan your poster' at the *More Than Pretty Pictures* conference, 13 April 2015, AIAS, Aarhus University, Denmark.

Djuke Veldhuis attended the pre-conference workshop 'Sense and Sensibility – Visual Design Principles for Scientific Data', 13 April, and attended and chaired at the conference *More Than Pretty Pictures*, 14-16 April 2015, AIAS, Aarhus University, Denmark.

Jessica Shadian gave the invited talk 'Rethinking Arctic Sovereignty: Carving out a Political Space for Indigenous Communities in Arctic and Global Governance', 14 April 2015, Basillie School of International Affairs, Waterloo, Ontario, Canada.

Rikke Schmidt Kjærgaard co-organised the conference *More Than Pretty Pictures* along with AIAS Fellow Lotte Philipson, 14-16 April 2015, AIAS, Aarhus University, Denmark.

Lotte Philipson presented the paper 'Imagery or Agency? Bio-art, bio-aesthetics, bio-activism' at the conference *More than Pretty Pictures*, 14-16 April 2015, AIAS, Denmark.

Morten Kyndrup participated in the NetIAS Annual Business meeting at IWM, Vienna, and gave the presentation 'AIAS a very young and yet very classical IAS', 16 April 2015. He furthermore attended the EURIAS 2015 Annual Meeting, 17 - 18 April 2015, also at IWM, Austria.

Jan Alber gave the paper 'Transmedial Meets Postcolonial Narratology: An Analysis of Zorba the Greek Yolngu Style by the Aboriginal Chooky Dancers', 17 April 2015, European Narratology Network Conference, Ghent, Belgium.

Alfonso Blázquez-Castro gave the invited seminar entitled 'Single cell laser photodynamics: femtosecond lasers as tools to modulate cell physiology', 17 April 2015, The Center for Molecular Biology-Severo Ochoa, Madrid, Spain.

Jessica Sheridan attended the Annual Association of Geographers (AAG) meeting as a panellist in the session 'Author Meets Critics: The Politics of Arctic Sovereignty' and presented the paper in the session: 'Governance of Polar Regions entitled 'Not thinking like a state: Territoriality and Inuit governance', 19-25 April 2015, Chicago, IL, USA.

Consuelo Manetta gave the talk 'The Different Faces of the Sky. Decorative culture, floral, astral and mythological representations within figural coffered ceilings', 20 April 2015, at the AIAS Fellow Seminar, Denmark.

Karen Ní Mheallaigh organised the conference *Adventures beyond Thule: the Wonders of Antonius Diogenes in antiquity and beyond* and gave the presentation 'Wonder-women: writing and reading women with Antonius Diogenes', 21-22 April 2015, Aarhus Institute of Advanced Studies, Denmark.

Xuhui Dong attended the workshop 'Aquatic Transitions – Integrating records of aquatic change: existing evidence and missing data' at the British Geological Survey as invited national representative of China, 22-24 April 2015, Nottingham, UK.

Alfonso Blázquez-Castro gave the invited seminar 'Single cell laser photodynamics: femtosecond lasers as tools to modulate cell physiology', 24 April 2015, the IMDEA-Nanoscience Institute, Madrid, Spain.

Karin Lykke-Hartmann gave a talk and presented a poster at the Neuroscience Day 2015, 28 April 2015, AIAS, Aarhus University, Denmark.

David Petrosyan gave the invited seminar 'Correlations of Rydberg excitations in optically-driven atomic ensembles', 29 April 2015, Heriot-Watt University, Edinburgh, UK.

Rima Obeid attended an expert workshop on 'Critical nutrients for children – which challenges remain?' organized by the German Child Health Foundation and gave the presentation 'Folate and cobalamin intake recommendations for infants and children: Knowledge gaps', 29 April 2015, München, Germany.

Ronald Fischer gave the talk 'The psychology of human values: what value research can tell us about humans, society and culture', 1 May 2015, University of Newcastle, Australia.

Karl-Erik Andersson participated in the 5th annual Canadian Urology Forum 'Challenges and Dilemmas in Lower Urinary Tract and Pelvic Floor Disorders' and gave the talk 'Future Therapies in OAB', 1-2 May 2015, Toronto, Canada.

Jessica Shadian co-taught a PhD course in the Pan Arctic PhD programme in Arctic Extractive Industries, 3-8 May 2015, St. John's, Newfoundland, Canada.

Ùmit Akbey gave the presentation 'Structural Biology of Difficult Proteins: A Solid-State NMR Approach', 8 May 2015, Dept. of Molecular Biology and Genetics – Structural Biology, Aarhus University, Denmark.

Ronald Fischer gave the talk 'No pain, no gain? Complex multi-level dynamics during an extreme ritual', 11 May 2015, Interacting Minds Centre for the Study of Cognition, Communication and Choice, Aarhus University, Denmark.

Jessica Shadian attended the conference 'Canadian Foreign Policy Traditions and Transitions', 13-15 May 2015, Bill Graham Centre, Munk School of Global Affairs, Trinity College, University of Toronto, Canada.

Jan Alber gave the paper 'Ideologies and Narrative Strategies: The Narrators of Benang and Midnight's Children' at the conference Ideology in Postcolonial Texts and Context organized by the Gesellschaft für Anglophone Postkoloniale Studien, 14-16 May 2015, Münster, Germany.

Karl-Erik Andersson attended the AUA Annual Meeting and chaired the sessions: 'A Decade of Pharmacotherapy for OAB: What Have We Learned?' and 'Bladder and Urethra: Anatomy, Physiology and Pharmacology II', and gave the lecture 'What is New in the Pipeline?', 15-19 May 2015, New Orleans, USA.

Karin Lykke-Hartmann gave the invited talk 'Translational studies of sodium pump knock-in mouse models', 18-19 May 2015 on the 47th Sandbjerg Meeting on Membrane Transport, Sandbjerg Estate, Sønderborg, Denmark.

Djuke Veldhuis gave the talk 'Paradise Lost? Measuring the social, psychological and physiological effects of rapid modernisation in New Ireland, Papua New Guinea', 19 May 2015, Interacting Minds Centre, Aarhus University, Denmark.

Jessica Shadian participated in the book workshop 'Beyond Geopolitics: Arctic Governance from a Global Perspective', 19-22 May 2015, Potsdam, Germany.

Jan Alber presented the paper 'The Gothic Novel and Other Types of Experimentalism in the Eighteenth Century' at the workshop 'The Many Faces of the Gothic', 26 May 2015, Aarhus University, Denmark.

Jessica Shadian was an invited speaker at the 8th Annual Workshop for Women in International Security [WIS 2015]: Rethinking Foreign and Defence Policy in Canada: A decade after the International Policy statement, 27-29 May 2015, Goodes Hall, Queen's University, Kingston, Canada.

Karl-Erik Andersson gave the presentation 'Future therapies for OAB', 28-29 May 2015, The Swedish Enuresis Academy, Trolleholm, Sweden.

Lotte Philipson co-organized the conference Aesthetics, contemporaneity, art with the Nordic Society of Aesthetics and gave the paper 'It's (a) live! Real time and contemporaneity in new art', 28-30 May 2015, AIAS, Denmark.

Bjørn Panyella Pedersen attended the DANSCATT Annual Meeting, the 44th Danish Crystallographers Meeting, as participant and chairman, 28-29 May 2015, Aarhus University, Denmark.

Djuke Veldhuis attended the Cheltenham Science Festival as intro speaker and chair and collaborative work with visiting scientists, 2-7 June 2015, Cheltenham, United Kingdom.

Karl-Erik Andersson gave the presentations 'Pathophysiology of the aging bladder and ischemia', 'Potential future treatments of the aging bladder' and 'Trends in pharmacological treatments', 3-5 June at Nordisk Urologisk Forening (NUF), Malmö, Sweden.

Morten Kyndrup gave the presentation '*Kunstens (egen) værdi*' at the Unity Seminar on Art and Culture on 4 June 2015 at Trekroner Fort, The Ministry of Culture, Copenhagen.

Jessica Shadian gave a presentation on 'Arctic Governance after the Land Claims Settlements', 16-19 June 2015, at the Northern Borders Conference: Co-hosted by Yukon government, University of Yukon, The University of Victoria, Yukon, Whitehorse Canada.

Ümit Akbey was invited speaker at the *See-Drug Conference* and gave the presentation of his work on functional amyloids with the title 'Structural Biology of Functional Amyloids. In Biofilms, Fibril formation and Infection', 19 June 2015, Patras, Greece.

Mads Vaarby Sørensen gave the talk 'The renal response to acute high K⁺ intake', 25 June 2015, Department of Bioscience, Section of Zoophysiology, Aarhus University, Denmark.

David Petrosyan gave the invited talk 'Adiabatic passage in dissipative Rydberg superatoms' at the international conference on Rydberg physics, iCoRD 2015, 28 June to 3 July 2015, Durham, UK.

AWARDS, APPOINTMENTS AND GRANTS

Karl-Erik Andersson was awarded with the ICS 'Lifetime Achievement Award' by the International Continence Society and gave the lecture on 'Bladder Control: Alternative Pharmacological Targets', 20-24 October 2014, Rio de Janeiro, Brazil.

Joseph L. Scarpaci was appointed a member to the editorial board of *Diálogos Latinoamericanos* published by the Latin American Studies Center at Aarhus University, Denmark, 26 November 2014.

Bjørn Panyella Pedersen was awarded with a prestigious ERC Starting Grant from the European Research Council (ERC) valued at EUR 1.5 million to start a research group within structural biology at Aarhus University, December 2014.

Jan Alber was elected Second Vice-President of the International Society for the Study of Narrative (ISSN) for 2015 (and he will be First Vice-President in 2016 and President in 2017), December 2014.

Jessica Shadian was selected by the Canadian Standards Association (CSA) to be part of the International Organization for Standardization's (ISO) Technical Committee responsible for developing standards for oil and gas operations in cold climate regions that will help ensure safe and effective Arctic oil and gas operations while also ensuring protection of the environment and the people working and living in these regions, February 2015.

Jessica Shadian has been appointed as book review editor beginning in July 2015 for *The Polar Journal*, May 2015.

Sonia Coriani joined the Editorial Board of the peer-reviewed international journal *Theoretical Chemistry Accounts*, published by Springer, May 2015.

Bjørn Panyella Pedersen was awarded the highly prestigious 'Early Career Grant' from DuPont, and selected as one of nine '2015 DuPont Young Professors', Wilmington, Del, USA, 4 June 2015.

David Petrosyan was awarded a Certificate of Recognition for his dedication and professional excellence as a referee for the journal *New Journal of Physics* by the Editorial Board of the journal on 5 June 2015.

Martin Holmstrup was awarded a 'DFF research project 2' by the The Danish Council for Independent Research (Technology and Production), June 2015.

Bjørn Panyella Pedersen was appointed a member of the Young Academy, The Royal Danish Society of Sciences and Letters, Copenhagen, Denmark, 15 June 2015.

Bjørn Panyella Pedersen was awarded with the ST Science Award 2015, a prize given by the Faculty of Science and Technology, Aarhus University in recognition of his academic work, 22 June 2015.

Jessica Shadian has received a grant from the Leverhulme Trust (International Network Grant) as a lead co-partner of the subproject: 'Local & Indigenous Perspectives' under the: 'Project on Indeterminate and Changing Environments: Law, the Anthropocene, and the World (the ICE LAW Project)'. Duration: 36 months, Amount: £124,925, PI: Philip Steinberg, Durham University, June 2015.

IN THE MEDIA

Jürgen Elvert published a review of Werner Weidenfeld's *Europa. Eine Strategie* (Kösel-Verlag, München 2014) in: *Frankfurter Allgemeine Zeitung*, 2 December 2014, Politik, p. 7.

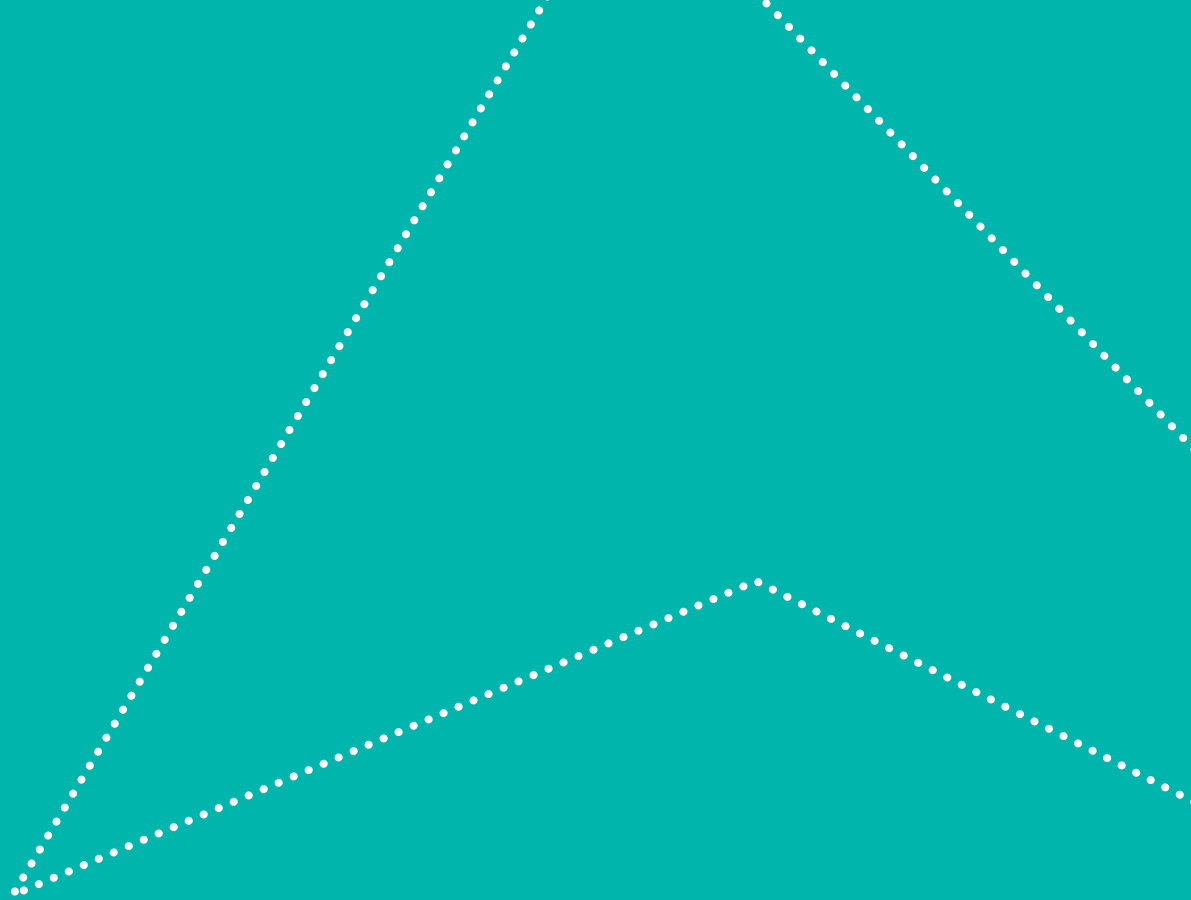
Joseph Scarpaci gave an interview to *The Roanoke Times* on 17 December 2014, commenting on the change in the diplomatic relations between the USA and Cuba in the article 'New Cuba policy met with cheers by immigrants in Roanoke Valley'.

Joseph Scarpaci gave an interview to the Brazilian magazine *Istoe Independente* commenting on the US-Cuban rapprochement in the article 'Somos todos americanos', 19 December 2014.

Jessica Shadian took part in the debate about the Arctic drilling controversy as a specialist on arctic governance on the news show *Inside Story* on Al Jazeera, 19 May 2015.

AIAS EVENTS





In addition to the **AIAS Fellows' Seminar Series**, the Institute has organised a significant number of **conferences, workshops and guest lectures** serving as foundation for developing and maintaining **collaboration** between the AIAS Fellows, AU faculty members and external researchers.



Time for discussion at the AIAS Conference *The Human Condition: Reinventing Philosophical Anthropology* in June 2015.

AIAS EVENTS

AIAS Fellows' Seminar: 'Documenting life - bio-imaging in the crossfire between the natural scientific and aesthetic gaze' by Rikke Louise Meyer and Peter Ole Pedersen, invited by AIAS Fellows' Rikke Schmidt Kjærgaard and Lotte Philipsen. 22 September 2014

Arctic Seminar Series: 'Past Arctic sea-ice variability, forcing mechanisms and impact on Norse settlements' by Professor Marit-Solveig Seidenkrantz, Dept. of Geoscience, Aarhus University, organised by AIAS Fellows Toke T. Høye and Rane Willerslev, 23 September 2014

DUA PEP-TALKS: The Young Academy: 'Kernevåbnenes kulturhistorie' by Casper Sylvest, SDU, organised by AIAS Fellow Rikke Schmidt Kjærgaard and Katrine Hassenkam Zoref, Det Unge Akademi, Copenhagen, 24 September 2014

AIAS Fellows' Seminar: 'Arctic ecological change – species and community responses to climate change' by AIAS Fellow Toke Thomas Høye, 6 October 2014

AIAS Journal Club: on data visualisation, organised by AIAS Fellow Rikke Schmidt Kjærgaard, 9 October 2014

AIAS Fellows' Seminar: 'Economics of Migration - Gains from Domestic and International Migration' by John Kennan, The University of Wisconsin, Madison, USA, invited by AIAS Fellow Bent Jesper Christensen, 20 October 2014

AIAS Conference: *In Memory of Dale T. Mortensen*. To commemorate Nobel Prize winner in Economics and member of the AIAS Advisory Board, Dale T. Mortensen; organised by Dept. of Economics, Aarhus University, Northwestern University, USA and the AIAS, 21 October 2014

Arctic Seminar Series: 'Practicing interdisciplinarity: reflections on collaborations and hegemonies' by Andreas Roepstorff, Aarhus University, organised by AIAS Fellows Toke T. Høye and Rane Willerslev, 21 October 2014

DUA PEP-TALKS: The Young Academy: 'Stik en finger i jorden!' by Rubina Raja, Dept. of Classical Archaeology, Aarhus University, organised by AIAS Fellow Rikke Schmidt Kjærgaard and Katrine Hassenkam Zoref, Det Unge Akademi, Copenhagen, 22 October 2014

AIAS Fellows' Seminar: 'Diatoms – photosynthetic protists can survive without light and oxygen' by AIAS Fellow Anja Kamp, 27 October 2014
AIAS Event: 'Halloween in HELL' by AIAS Fellow Djuke Veldhuis and Dr. Mathias Clasen, Centre for Biocultural History, 31 October 2014

AIAS Colloquium: 'Contemporaneity and Contemporary Art' by Terry Smith and Peter Osborne, organised by AIAS Fellow Lotte Philipsen in collaboration with Jacob Lund, School of Communication and Culture, 3-4 November 2014

AIAS Fellows' Seminar: 'Cyclic pelvic pain: Medico-economic aspects of a neglected women's disease' by Axel Forman, invited by AIAS Fellow Karl-Erik Andersson, 10 November 2014

Arctic Seminar Series: 'Insect population dynamics in a rapidly changing Arctic' by Lauren Culler, Dartmouth College, UK, organised by AIAS Fellows Toke T. Høye and Rane Willerslev, 11 November 2014

AIAS Journal Club: 'Quantum citizen science games: visualizing atomic motion' by Jacob Sherson, Center for Community Driven Research, CODER, Aarhus University, organised by AIAS Fellow Rikke Schmidt Kjærsgaard, 13 November 2014

Arctic Seminar Series: 'Inuit Health in a changing Arctic' by Professor and Director Eva Cecilie Bonefeld-Jørgensen, Centre for Arctic Health, Aarhus University, organised by AIAS Fellows Toke T. Høye and Rane Willerslev, 18 November 2014

AIAS Fellows' Seminar: 'Globalizing Europe - European history in global context' by AIAS Fellow Jürgen Elvert, 24 November 2014

AIAS Fellows' Symposium: AIAS Fellows presented their research field for each other including a scientific speed dating and discussion session. Initiated and organised by AIAS Fellow Machteld Verzijden, 25-26 November 2014

DUA PEP-TALKS: The Young Academy: 'Fra pendulet til kvantecomputeren' by Jacob Sherson, Dept. of Physics and Astronomy, Aarhus University, organised by AIAS Fellow Rikke Schmidt Kjærsgaard and Katrine Hassenkam Zoref, Det Unge Akademi, Copenhagen, 26 November 2014

AIAS Fellows' Seminar: 'Why Europe Avoided Hegemony: A Historical Perspective' by Jørgen Møller, invited by AIAS Fellow Georg Sørensen, 1 December 2014

Arctic Seminar Series: 'Environmental Ethics: Sustainability and the special case of The Arctic', by Jacob Busch, School of Culture and Society, Dept. of Philosophy, Aarhus University, organised by AIAS Fellows Toke T. Høye and Rane Willerslev, 2 December 2014

Arctic Seminar Series: 'Bugs in Shrubs: The Arthropod Community Response to Shrub Expansion in the Alaskan Arctic', by Ashley Asmus, University of Texas, USA, organised by AIAS Fellows Toke T. Høye and Rane Willerslev, 9 December 2014

AIAS Journal Club: on data visualisation, organised by AIAS Fellow Rikke Schmidt Kjærsgaard, 10 December 2014

AIAS Fellows' Seminar: 'Sweet-talking about sugar: How does sugar enter our body?' by AIAS Fellow Bjørn Panyella Pedersen, 15 December 2014

DUA PEP-TALKS: The Young Academy: '1. Verdenskrig og international politik' by Karen Gram-Skjoldager, School of Culture and Society, Aarhus University, organised by AIAS Fellow Rikke Schmidt Kjærsgaard and Katrine Hassenkam Zoref, Det Unge Akademi, Copenhagen, 17 December 2014

AIAS Workshop: 'Kiel Aarhus Renal Epithelial Physiology Workshop'. Collaboration between Kiel University and AU/AIAS organised by AIAS Fellow Mads V. Sørensen, 16-17 January 2015

AIAS Workshop: 'European Ports Repositories of European Cultural heritage and workshops of European Civilisation' organised by AIAS Fellow Jürgen Elvert, 22-23 January 2015

AIAS Seminar: Talk about Cell Biology and Astrobiology followed by discussion; held and organised by AIAS Fellow Alfonso Blazquez-Castro, 27 January 2015

AIAS Fellows' Seminar: 'Deficiency in an over-nourished world: A global public health perspective on folate and cobalamin' by AIAS Fellow Rima Obeid, 2 February 2015

AIAS Journal Club: on data visualisation, organised by AIAS Fellow Rikke Schmidt Kjærsgaard, 12 February 2014

AIAS Fellows' Seminar: 'Iconic Branding Constructs: Towards an Understanding of Consumer Behavior in Nordic and Latin American Welfare States' by AIAS Fellow Joseph Scarpaci, 16 February 2015

Arctic Seminar Series: 'Records of mud and rocks: A longer-term perspective of the Greenland Ice Sheet's response to climate change' by Laura Levy, Aarhus University, organised by AIAS Fellow Toke T. Høye and Pelle Tejsner, ARC, 18 February 2015

AIAS Fellows' Seminar: 'An apple a day keeps the doctor away' by AIAS Fellow Mads V. Sørensen, 2 March 2015

Arctic Seminar Series: 'Stress & happiness: adventures in human adaptability' by AIAS Fellow Djuke Veldhuis, AIAS, organised by AIAS Fellow Toke T. Høye and Pelle Tejsner, ARC, 4 March 2015

AIAS Event: OIKOS Meeting and PhD workshop, organised by AIAS Fellow Toke T. Høye in collaboration with Anne Eskildsen and Signe Normand, Dept. of Bioscience, Aarhus University, 6-7 March 2015

AIAS Workshop: 'Rydberg Quantum Simulators'. 23 papers, poster session and 4 keynote talks by: Matthias Troyer, ETH Zürich, Institut f. Theoretische Physik, Switzerland, Gabriela S. Schlau-Cohen, Dept. of Chemistry, MIT, USA & Karl Jansen, NIC, DESY Zeuthen, Germany. Organised by AIAS Fellow David Petrosyan in collaboration with Prof. Klaus Mølmer, Dept. of Physics and Astronomy, Aarhus University, 11 March 2015

AIAS Fellows' Seminar: 'Climate change and biological timing: winners and losers under new environmental conditions' by AIAS Fellow Amy Iler, 16 March 2015

AIAS and HELL (Human Evolution Lunchtime Lecture): 'Establishing a cosmic womb: Art as consolation for premature primates' by Jacob Wamberg, Aarhus University, organised by AIAS Fellow Djuke Veldhuis in collaboration with Centre for Biocultural History, Aarhus University, 21 March 2015

AIAS Fellows' Seminar: 'Indigeneity in Contemporary Australian Literature and Culture' by AIAS Fellow Jan Alber, 23 March 2015

AIAS Workshop: 'Ideology and Form in Anglophone Narrative'. Seven talks on the interconnections between ideology and form followed by discussions. Organised by AIAS Fellow Jan Alber, 26 March 2015

Arctic Seminar Series: 'Sea Ice: Source or sink for atmospheric CO₂?' by Nicolas-Xavier Geilfus, Aarhus University, organised by AIAS Fellow Toke T. Høye and Pelle Tejsner, ARC, 26 March 2015

AIAS Conference: *More than Pretty Pictures – The Aesthetics of Data Representation*. International conference with 1 day of workshops and masterclass followed by a 3-days conference with 4 keynote talks and 20 paper presentations. Organised by AIAS Fellows Lotte Philipsen & Rikke Kjærgaard Schmidt, 13-16 April 2015

Arctic Seminar Series: 'Interdisciplinary research... Can we learn anything from the Arctic at all? By Frank Sejersen, University of Copenhagen, organised by AIAS Fellow Toke T. Høye and Pelle Tejsner, ARC, 14 April 2015

AIAS Fellows' Seminar: 'The different faces of the sky. Floral, astral and mythological representations within figural coffered ceilings' by AIAS Fellow Consuelo Manetta, 20 April 2015

AIAS Conference: *Adventures beyond Thule: the Wonders of Antonius Diogenes in antiquity and beyond*. The conference brought together an international team of 15 specialists who explored the fiction, realia, text, language, story, context and *Nachleben* of Diogenes' *The wonders beyond Thule*. Organised by AIAS Fellow Karen ní Mheallaigh, 21-22 April 2015

AIAS and HELL (Human Evolution Lunchtime Lecture): 'Human population genetics' by Georgios Athanasiadis organised by AIAS Fellow Djuke Veldhuis in collaboration with Centre for Biocultural History, Aarhus University, 24 April 2015

AIAS Fellows' Seminar: 'Quantum Emulators – Simulating few- and many-body physics with Rydberg atoms' by AIAS Fellow David Petrosyan, 4 May 2015

Arctic Seminar Series: 'Microbiological studies in Greenland- bridging soils, sediments and the atmosphere' by Kai Finster, Aarhus University, organised by AIAS Fellow Toke T. Høye and Pelle Tejsner, ARC, 13 May 2015
AIAS Fellows' Seminar: 'Single cell laser photodynamics: Lasers as tools to modulate cell physiology' by AIAS Fellow Alfonso Blázquez-Castro, 18 May 2015

Arctic Seminar Series: 'Impacts of glacial melt water on the marine ecosystem around Greenland' by Mikael Sejr, Aarhus University, organised by AIAS Fellow Toke T. Høye and Pelle Tejsner, ARC, 27 May 2015

AIAS Conference: *Aesthetics, Contemporaneity, Art*. 3-days conference with 4 keynote talks and three parallel sessions, involving 37 different talks. Organised by AIAS Director Morten Kyndrup, AIAS Fellow Lotte Philipsen in collaboration with Thomas Bjørnsten, Jacob Lund, Lea Muldtofte Olsen, Birgitte Stougaard Pedersen, Dept. of Aesthetics and Culture, AU, 28-30 May 2015

AIAS Fellows' Seminar: 'Telescopic Earths: from the Iliad to the Pale Blue Dot' by AIAS Fellow Karen ní Mheallaigh, 1 June 2015

AIAS Guest talk: 'Extinction debt and restoration credit of plants and insects in semi-natural grasslands' by Erik Öckinger, Swedish Agricultural University, Sweden, organised by AIAS Fellow Toke T. Høye, 10 June 2015

AIAS Guest talk: 'Interacting effects of climate change and habitat fragmentation on drought-sensitive butterflies' by Tom Oliver, Centre for Ecology and Hydrology, Wallingford, UK, organised by AIAS Fellow Toke T. Høye, 10 June 2015

AIAS Conference: *The Hands of Time: Multiple Perspectives on Aging*. International 2-days conference on 'Aging' with 15 invited speakers presenting their high-level research on the topic. The diversity of the conference speakers' field of study allowed multiple perspectives on 'Aging'. Organised by AIAS Fellow Karl-Erik Andersson, Torben M. Andersen, Dept. of Economics and Business, AU, Bent Jesper Christensen, Dept. of Economics and Business, AU, Dorthe Berntsen, Dept. of Psychology, AU, Annette Bohn, Dept. of Psychology, Aarhus University, Rane Willerslev, School of Culture and Society, AU, Morten Kyndrup, AIAS Director and Lena Bering, AIAS Communications Officer, 11-12 June 2015

AIAS Summer Gathering: social reunion with invited talk entitled 'On the Run in Siberia' by former AIAS Fellow Rane Willerslev, Dept. of Anthropology, Aarhus University, 22 June 2015

AIAS Conference: *The Human Condition – Reinventing Philosophical Anthropology*. International 3-days conference with 15 high-level talks and a pre-conference workshop for PhD students. Organised by AIAS Fellow Cheryl Mattingly in collaboration with AU faculty members Thomas Schwarz Wentzer, Rasmus Dyring, and Maria Louw, 24-26 June 2015

AIAS Guest talk: 'Phenotype-driven chemical screening in zebrafish for collective cell migration inhibitors identifies multiple potential pathways for targeting metastasis' by Viviano Gallardo, Translational and Functional Genomics Branch (TFGB), National Human Genome Research Institute (NHGRI), National Institutes of Health (NIH), USA organised by AIAS Fellow Karin Lykke-Hartmann in collaboration with Ingrid Carvacho, Department of Biomedicine, Aarhus University, 6 July 2015

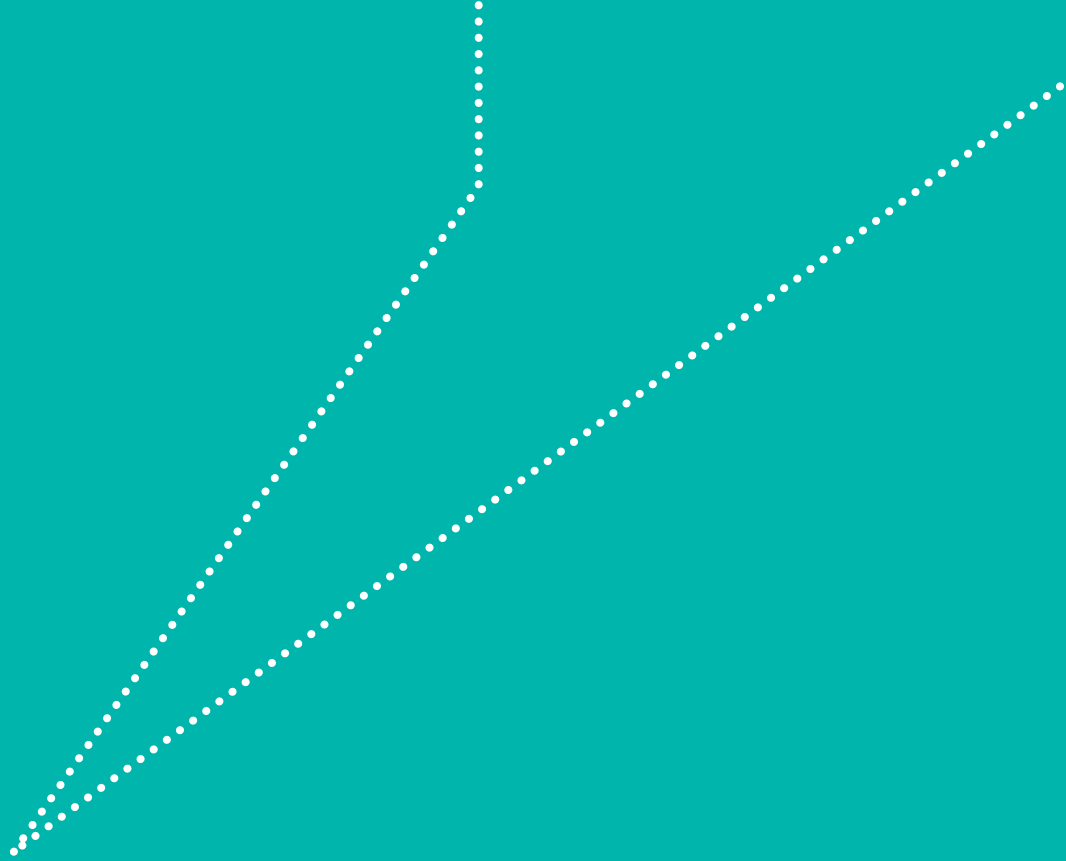
AIAS Advisory Board Meeting: organised by the AIAS, Morten Kyndrup and Jeppe D. Olesen, 21-22 August 2015



Networking at the AIAS conference *The Hands of Time: Multiple Perspectives on Aging*, June 2015.

HOSTED EVENTS





The AIAS has **opened its doors** to host a large number of significant events for Aarhus University as well as external institutions, bringing the AIAS fellows, AU researchers and international collaborators **closer together**. In the year to come, the Institute again **welcomes** academic events and encourages organisers to continue **involving** the AIAS fellows.



HOSTED EVENTS

Kjell Johansen Lecture: 'Trends in the study of marine birds and mammals' by Professor Gerald Kooyman, Scripps Institution of Oceanography, USA, organised by Tobias Wang, Dept. of Zoophysiology, Aarhus University, 18 September 2014

Kjell Johansen Diving Physiology Workshop: organised by Tobias Wang, Dept. of Zoophysiology, Aarhus University, 19 September 2014
 Network for Research in Children and Youth: Aarhus Sick Kids, organised by the Dept. of Clinical Medicine, 9 October 2014

Workshop: 'Mathematics and Genetics of Selection and Adaptation' organised by Thomas Bataillon, Bioinformatics Research Centre (BiRC), Aarhus University, 23-24 October 2014

Strategic Seminar Open Access: organised by AU Library, Anna Mette Morthorst, Aarhus University, 27 October 2014

Seminar: Membranes Seminar, organised by Søren Mostrup and Marianne Rasmussen, Dept. of Biomedicine, Aarhus University, 28 October 2014

The Learned Society of Aarhus: 'Arvelighed og psykisk lidelse' by Anders Børghlum, Dept. of Biomedicine, organised by Ole Togeby, The Learned Society (DLS), 28 October 2014

CCQED Final meeting and conference: EU Marie Curie ITN-network CCQED, organised by Michael Drewsen and Celia Haldan Voetmann, 29-31 October 2014

Knud Rasmussen Lecture: by Professor Bruce Forbes, University of Lapland, Rovaniemi, Finland; Assistant professor Signe Normand, Aarhus University; Associate professor Felix Riede, Aarhus University, organized by ARC, Aarhus University, 29-30 October 2014

DANDRITE Advisory Board Meeting: organised by DANDRITE, Aarhus University, 6 November 2014

FOOD workshop: Dept. of Food Science, Aarhus University, 11 November 2014

Conference: 'Advances in Econometrics' organised by CREATES, the Dept. of Economics and Business Economics, Aarhus University, 14-16 November 2014

Kjeldgaard Lecture: 'Navigating the cellular landscape with new optical probes, imaging strategies and technical innovations' by Jennifer Lippincott-Schwartz, Cell Biology and Metabolism Branch, National Institutes of Health (NIH), Bethesda, Maryland, USA, organised by the Dept. of Molecular Biology and Genetics, Aarhus University, 20 November 2014

Indonesian delegation visit: organised by Knud Warming, International Centre, Aarhus University, 21 November 2014

The Learned Society of Aarhus: 'Genpatenter, enhedspatentet og den europæiske patentdomstol' by Tine Sommer, Dept. of Law, organised by Ole Togeby, The Learned Society (DLS), 25 November 2014

Conference: Arctic Offshore Conference 2014 – Aarhus Interdisciplinary Arctic Initiative, organised by ARTS/BSS, Aarhus University, 27-28 November 2014

Sino Danish Workshop: organised by Nikolaj Thomas Zinner, Dept. of Physics and Astronomy, Aarhus University, 1 December 2015
DANDRITE symposium: 'New frontiers in molecular and translational neuroscience', organised by EMBL, Aarhus University and The Lundbeck Foundation, 2 December 2014

Kjeldgaard Lecture: 'Lighting up RNA Interactions' by David Tollervey, Wellcome Trust Centre for Cell Biology, University of Edinburgh, Scotland, organised by the Dept. of Molecular Biology and Genetics, Aarhus University, 4 December 2014

AU Network of Public Mental Child Health: organised by the Dept. of Public Health, Aarhus University, 12 December 2014

Lundbeckfond Lecture: 'Ebola og andre epidemier' by Dr. Sanne Jespersen, Aarhus University Hospital and Dr., Prof. Thomas Benfield, Hvidovre Hospital, organised by Folkeuniversitetet, 20 January 2015

Doctoral defense: 'Christian Barthology, vækkelseskristendom og dansk kirkeliv. Studier i Indre Missions historie, ca. 1930-1960' by Kurt Etrrup Larsen, School of Culture and Society, Aarhus University, 30 January 2015

Kjeldgaard Lecture: 'Looking at proteins in live cells with atomic resolution: From Science Fiction to Science Reality' by Phil Selenko from Leibniz-Institut für Molekulare Pharmakologie im Forschungsverbund Berlin, Germany, organised by the Dept. of Molecular Biology and Genetics, Aarhus University, 26 February 2015

Doctoral defense: 'Christ – The Teacher of Salvation. A Study of Origen's Christology and Soteriology' by Anders-Christian Jacobsen, School of Culture and Society, 27 February 2015

Lundbeckfond Lecture: 'På grænsen mellem liv og død', Århundredets Festival - Viden & debat, by Prof. Niels Ulbjerg, Dept. of Clinical Medicine, Dr. Lars Illkjær, Aarhus University Hospital, and Mickey Gjerris, Dept. of Food and Resource Economics, University of Copenhagen, organised by Folkeuniversitetet, 8 March 2015

Human Evolution Lunchtime Lecture (HELL): 'Adventures in Uganda: Chimpanzees, duikers and elephants, oh my!' by Peter Kjærgaard and Jessica Hartel, Centre for Biocultural History, Aarhus University, 10 March 2015

Lundbeckfond Lecture: 'Hovedpine' (Headache), by Messoud Ashina, Glostrup Hospital and Helge Kasch, Aarhus Universitetshospital, organised by Folkeuniversitetet, 17 March 2015

Kjeldgaard Lecture: 'Pharmacological modulation of lifespan in *C. elegans*; what it teaches us about aging' by Gordon Lithgow, The Buck Institute for Research on Aging, CA, USA, organised by the Dept. of Molecular Biology and Genetics, Aarhus University, 19 March 2015

Symposium: organised by the Research Unit for General Practice, Health, Aarhus University, 13 April 2015

Conference: 'Evidensbaseret praksis versus praksisbaseret evidens. En tværfaglig konference for sundhedsprofessionelle' organised by Jens Olesen and Charlotte Delmar, Dept. of Public Health and Dept. of Clinical Medicine, Aarhus University, 23 April 2015

Neuroscience Day 2015: with Jan Egebjerg, Vice President Neurodegeneration and Biologics at Lundbeck; Preben Bo Mortensen, Professor at iPSYCH; Jørgen Kjems, Director of iNANO; Nicola Pavese, Associate Professor at CFIN; Associate Professor Jakob Udby Blicher, Hammel Neurocenter, organised by NeuroCampus Aarhus, Aarhus University, 28 April 2015

Joint KJELDGAARD & DANDRITE Lecture: 'Reprogramming the Genetic Code' by Jason W. Chin, Centre for Chemical & Synthetic Biology, Cambridge University, UK, 7 May 2015

Human Evolution Lunch Lectures (HELL): 'The Evolution of Human Sociality: The Current State of Knowledge' by Joseph Carroll, Dept. of English, University of Missouri, St. Louis and Centre for Biocultural History, Aarhus University, 8 May 2015

Symposium: 'Technology Based Support of Mental Child- and Adolescent Health', organised by www.mentalnet.au.dk, 20 May 2015

Kjeldgaard Lecture: 'Nitrogenase Biotechnological Applications' by Luis M. Rubio, Centre for Plant Biotechnology and Genomics, Madrid, organised by the Dept. of Molecular Biology and Genetics, Aarhus University, 21 May 2015

Lecture: 'How to Write a Competitive Proposal for Horizon 2020' by Dr. Sean McCarthy, organised by the Research Support Unit, Aarhus University, 3 June 2015

Lecture: 'How to Write the Impact and Abstract of a Horizon 2020 Proposal' by Dr. Sean McCarthy, organised by The Research Support Unit, Aarhus University, 4 June 2015

Conference: 'Conference in Honour of Ole Barndorff-Nielsen: Aarhus Conference on Probability, Statistics and their Applications' organised by the Dept. of Mathematics, Aarhus University, 15-19 June 2015

Workshop: 'Animism' organised by Pelle Tejsner, Arctic Research Centre, Aarhus University, 18 June 2015

Workshop: 'Collapsed Futures' organised by Rane Willerslev, Dept. of Anthropology, Aarhus University, 19 June 2015

Lundbeckfond Lecture: organised by Folkeuniversitetet, 6 August 2015

Lundbeckfond Lecture: organised by Folkeuniversitetet, 12 August 2015

Workshop: Workshop about parenthood, organized by AU Network of Public Mental Child Health, Aarhus University, 18 August 2015

Conference: 'Risk and Hope in Biomedicine and Public Health', 24-25 August 2015

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Although a young Institute with only two years in existence, the AIAS is already a member of two societies for Institutes for Advanced Study, the worldwide network: UBIAS and the European network for the highest ranking IAS': NetIAS. With the NetIAS membership, the AIAS joins a collaborative network with notable institutes such as WiKo, Wissenschaftskolleg zu Berlin, CRASSH, Cambridge University, and SCAS, Uppsala.

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kyndrup@aias.au.dk

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Lena Bering, Communications Officer, lber@aias.au.dk

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plan@aias.au.dk

Helle Villekold, AIAS-COFUND Programme Manager, helv@adm.au.dk

Janni Borch Hansen, Administrative officer, janniborch@aias.au.dk

Susanne Sølling Rimmen, Relocation Officer, susr@au.dk



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