

ANNUAL REPORT 2011

A CREATIVE SPACE FOR THE MIND



stias

STELLENBOSCH INSTITUTE FOR ADVANCED STUDY
STELLENBOSSE INSTITUUT VIR GEVORDERDE NAVORSING





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HISTORY

- 1999 **November:** STIAS established by the Stellenbosch University (SU) Council
- 2000 **January:** Launch of the first 3 STIAS research projects: *Merging the Layers of Life*; *String Theory and Quantum Gravity – New developments and links to low-energy physics*; *Dealing with the Past (Historical Memory)*
November: First meeting of the Scientific Advisory Board
- 2001 **March:** Historic Mostertsdrift property of 2,6 ha is earmarked by SU for the exclusive use of STIAS
- 2002 **February – November:** Restoration and refurbishing of the manor house as headquarters for STIAS
Main sponsor: Karel Bos
- 2003 **May – October:** Restoration of the wine cellar to house SACEMA (South African Centre for Epidemiological Modelling and Analysis)
Main sponsors: The Swedish Bank Tercentenary Foundation and SU
- 2004 **March:** Official opening of the Mostertsdrift campus
December: Visit by Dr Peter Wallenberg, Chair of the Wallenberg Foundations
- 2005 **January:** Announcement by the Marcus and Marianne Wallenberg Foundation of Sweden of a R28-million grant to build a new research and seminar centre at Mostertsdrift
- 2006 **June:** Construction of the new centre begins
December: The SU Council decides to establish STIAS as an independent Section 21 company with its own Board of Directors
- 2007 **May:** First meeting of the STIAS Board of Directors chaired by Desmond Smith (Director of Companies)
November: Official opening of the Wallenberg Research Centre
- 2008 **February:** First fellows start working in the new building
May: Opening of the NITheP (National Institute for Theoretical Physics) in the centre's south wing, attended by Science and Technology Minister Mosibudi Mangena, Stephen Hawking, and Nobel laureates David Gross and George Smoot
September: Planting of the Izak Perold experimental vineyard

- 2009 **July:** *Towards a New Humanism* – STIAS symposium leading to *The Humanist Imperative in South Africa*, the first of the new STIAS book series published by SUN MeDIA (at the book launch in August 2011, the keynote address was delivered by Emeritus Archbishop Desmond Tutu)
October: Joint STIAS/German conference in Berlin on *Historical Memory and Social Transformation*, initiated by the German Minister of Science and Education in response to the findings of the STIAS project on Historical Memory
November: First Peter Wall Colloquium Abroad at STIAS, *The HIV-Exposed but Uninfected Infant: How can the Excess Morbidity and Mortality be explained?*
December: SU awards Peter Wallenberg (snr) an honorary doctorate
- 2010 **February:** Visit by Science and Technology Minister Naledi Pandor; her endorsement of the STIAS programme emphasises the “importance of maintaining the independence of the ‘creative space for the mind’ that STIAS provides”
August: A full complement of STIAS fellows resident at the new centre for the first time since its inauguration
December: Yanga Nkathazo, gardener of the much admired gardens at Mostertsdrift, receives an SU Rector's Award for Exceptional Achievement
- 2011 **January:** Support for the STIAS research programme announced in the form of a major five-year grant from the Marianne and Marcus Wallenberg Foundation
May: A substantial three-year grant from South Africa's Department of Science and Technology approved
November: Second Peter Wall Colloquium Abroad at STIAS, *'Many Voices One Song' – Health-promoting schools*
December: By the end of 2011 more than 280 resident fellows had accepted invitations to work at STIAS



CHAIRMAN'S FOREWORD

It is twelve years since Stellenbosch University (SU) decided to create the Stellenbosch Institute for Advanced Study (STIAS), and an opportune time to reflect on what has been achieved over this period and what challenges lie ahead.

The purpose of establishing STIAS as formulated in the presentation to the SU Council in 1999 was to advance the cause of science and scholarship through innovative, high-level research projects, to focus on Africa, and to strengthen the research capacity of the region and the continent.

While there is still a great deal to be done, STIAS has made significant progress over the last decade. Milestones include:

- The development of the beautiful, historical Mostertsdrift Estate into a perfect home for STIAS largely through the addition of the Wallenberg Research Centre. The STIAS campus has become a landmark in Stellenbosch and indeed 'a creative space for the mind'.
- Welcoming no fewer than 280 fellows to STIAS including internationally acclaimed academics. They have shown great appreciation for its multi-disciplinary nature and the interesting debate and discussion that take place in an informal setting.
- Formalising our relationship with SU in a number of contractual arrangements dealing with inter alia the rental of the Mostertsdrift property and the ongoing support of STIAS.
- Achieving our objective of positioning STIAS as a truly South African institution. While the role of SU in the creation of STIAS is undeniable, the need for STIAS – as the only such institute in South Africa – to establish itself as a national asset accessible to all tertiary and similar institutions, is important.

Although a great deal has been achieved to date, the next phase in the development of STIAS poses certain challenges that are currently being addressed. These include:

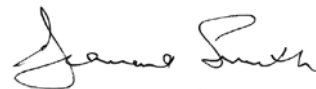
- Entrenching STIAS in the academic fabric of South Africa, and the acceptance of STIAS as a member of the international community of such institutes.
- Reaching out to Africa. We believe that STIAS has an obligation to play a role on the continent and make our facilities and expertise available to the countries of Africa.
- Ensuring the long-term financial stability of STIAS. While we have been able to continue the operation of STIAS and the academic programme over the last 12 years, we believe it is essential to structure our finances so as to ensure its ongoing financial stability.

In reflecting on this period of development and progress, we recognise the many role players who have been involved in our journey. Without detracting from the role of all involved, I do wish to mention some of the key contributors:

- Stellenbosch University, having conceptualised the idea and having had the courage to embark on this path; making the Mostertsdrift Estate available as a home for STIAS, and continuing to support STIAS financially and through their ongoing interest and enthusiasm. We would like to thank the Rector, Russel Botman, and the Executive Director of Operations and Finance, Leopoldt van Huyssteen, in particular.
- And how does one thank folk from 'the other side of the world' – Sweden? The Wallenberg Foundations who have so generously contributed – and continue to contribute – to the establishment and management of STIAS have been amazing. We are hugely indebted to Peter Wallenberg (snr), Peter Wallenberg (jnr) and Göran Sandberg, and we undertake to do our utmost to justify the faith and confidence they have displayed in STIAS.
- Our many other financial contributors who have contributed generously towards the STIAS programme include the Department of Science and Technology of South Africa, the Donald Gordon Foundation, Trellis Charitable Trust, Bosal International, Daimler-Fonds im Stifterverband für die Deutsche Wissenschaft, the Swedish Bank Tercentenary Foundation, Het Jan Marais Nationale Fonds, Absa Bank, the Flora Family Foundation and Stanford University.

Of course such an initiative cannot be a success without the efforts of a few individuals; let me confine my thanks to two – Bernard Lategan and Hendrik Geyer who have been the directors of STIAS over the last twelve years. Without your vision, dedication and energy we would not be where we are today. On behalf of all the STIAS stakeholders, many thanks and congratulations on what you have achieved.

To all others – SU management, the Fellowship and Programme Committee, the STIAS Board and STIAS employees, the Research Advisory Board, the STIAS fellows and many more, my heartfelt thanks for what you have done to help turn an idea – a dream – into a reality.



Desmond Smith
Chairman of the Board

While the role of SU in the creation of STIAS is undeniable, the need for STIAS – as the only such institute in South Africa – to establish itself as a national asset accessible to all tertiary and similar institutions, is important.



*Desmond Smith
Chairman of the Board*

DIRECTOR'S MESSAGE

The Stellenbosch Institute for Advanced Study (STIAS) was established in 1999 with a vision to provide and maintain a 'creative space for the mind'.

From a fairly modest rate of initial projects, which nevertheless had a lasting and wide-reaching impact, the programme has now grown to its current format: since 2008 the Wallenberg Research Centre accommodates the STIAS research programme built around residential fellowships offered to individuals and teams of researchers, and up to 20 STIAS fellows can now be accommodated simultaneously.

In 2011 the STIAS programme grew significantly: 56 STIAS fellows from around the globe participated in the programme for a total of 115 fellowship months; 12 visiting scholars and four project leaders from Stellenbosch University (SU) participated in the programme; 23 seminars were presented in the fellows' seminar series, and ten public STIAS lectures were given on the SU campus. Fellows and visiting scholars also presented and participated in numerous colloquia and lectures at academic departments of universities in the Western Cape.

To maintain and expand the research programme, while simultaneously seeking funding thereof, have remained a challenge. In 2011, STIAS was fortunate to make significant progress with funding for the Fellows Research Programme: in January 2011 the Marianne and Marcus Wallenberg Foundation (MMWF) announced a R30 million grant for this programme over five years; and in May 2011 the Department of Science and Technology (DST) announced a grant of R6,5 million over three years. We also continued to receive significant funding from the Donald Gordon Foundation, the Swedish Bank Tercentenary Foundation and the Daimler Chrysler Fund, while SU maintains its funding of key personnel and running costs.

Close collaboration exists with the Swedish-STIAS Advisory Board (SSAB) which has been appointed by the MMWF to establish and manage a framework of STIAS invitations to leading Swedish researchers, 31 of whom had been invited by the end of 2011 to take up STIAS fellowships and work on a number of projects, including health care interaction in multicultural societies, governance of ecosystem services under scenarios of change in southern Africa, and representative democracy – the unfulfilled promises.

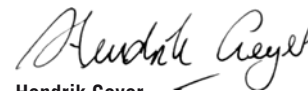
STIAS has been accepted and supported as a national and international research asset. It has been possible to involve a number of world-class researchers, and the current programme includes a good mix of individual researchers, thematic projects, and some fellows from non-academic environments.

Some highlights on the research agenda for 2011 include:

- The conclusion of the New Humanism project and the launch of the first STIAS publication *The Humanist Imperative in South Africa*.
- A three-day seminar presented by Manuel Castells on *Informational Development and Human Development: South Africa in a Global Perspective*.
- A PWIAS (Peter Wall Institute for Advanced Studies) three-day colloquium at STIAS on Health Promoting Schools in collaboration with the SU Faculty of Medicine and Health Sciences.
- Participation in the STIAS programme of Donald Gordon Fellows, Richard Wrangham (Harvard University), Sydney Brenner (University of Cambridge), Immanuel Wallerstein (Yale University), Baroness Susan Greenfield (University of Oxford) and South African playwright Athol Fugard.
- The STIAS Fellowship Programme has been extended to include a component of young scholars considered and supported on terms similar to the current STIAS research fellowships. Reinette Biggs (Stockholm Resilience Centre) was the first young scholar to visit STIAS.
- A long-term lease agreement for the use of the Mostertsdrift facilities has been concluded with SU.
- The facilities at the Wallenberg Research Centre have been established as a prime venue associated with quality service. During 2011 more than 25 000 people used the facility.

We suffered a tremendous loss with the unexpected passing of Paul Cilliers, a member of the STIAS Fellowship and Programme Committee, on 31 July 2011. He enriched and challenged the STIAS environment by delving deeply into philosophy, complexity, ethics, literature, the worlds of music, food and film, and his training as an electrical engineer. In his endearing way he was the embodiment of the STIAS ethos of sharing. As a veritable 'one-man multidisciplinary team' he was a shining example of what we uphold as the focus of the STIAS programme.

It is without exception that STIAS fellows comment in their exit reports about a unique and stimulating environment, first-rate facilities and excellent support by dedicated and helpful staff. It is indeed a pleasure to thank our staff members, as well as everyone who serves on the various STIAS boards and committees for their dedication to the STIAS cause which provided the foundation for our success in 2011.



Hendrik Geyer
Director of STIAS

It is without exception that STIAS fellows comment in their exit reports about a unique and stimulating environment, first-rate facilities and excellent support by dedicated and helpful staff.



*Hendrik Geyer
Director of STIAS*

2011 AT A GLANCE

May 2011

The Minister of Science and Technology, Naledi Pandor, approves a grant by the Department of Science and Technology of R6,5 million over three years to support the STIAS research programme.



From left: Gilbert Siko, Naledi Pandor, Hendrik Geyer, Nasima Badsha

January 2011

The Marianne and Marcus Wallenberg Foundation announces support for the STIAS research programme in the order of R30 million over the next five years.

May 2011

The Marianne and Marcus Wallenberg Foundation confirms funding for the STIAS/Wallenberg round table meetings to facilitate interaction between representatives from academia, business and industry, and government/policy making environments. The Foundation also takes steps to involve the former Vice Prime Minister of Sweden, Maud Olofsson, in planning for these high profile STIAS/Wallenberg meetings.

May 2011

The STIAS programme is extended to include a Young Scholars Programme for scholars 40 years and younger.

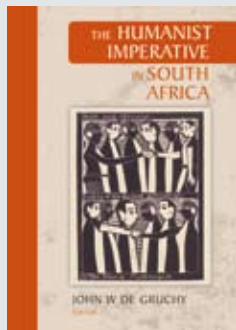


From left: David Kramer and Athol Fugard

56 Fellows participate in the programme for a total of 115 fellowship months. In addition 12 visiting scholars and four project leaders from Stellenbosch University (SU) are involved in the programme.

Fellowship duration	Number of STIAS fellows
One to two months	39
Two to four months	13
Four to six months	2
Six to eight months	2
Total number of STIAS fellows	56
Total number of fellowship months	115

23 seminars are presented in the fellows' seminar series and ten public STIAS lectures are delivered on the SU campus.



11 August 2011

Launch of the book, *The Humanist Imperative in South Africa*, the culmination of a two-year research project based at STIAS and published by SUN MeDIA, is the first in a series of STIAS publications. The keynote address at the launch is given by Emeritus Archbishop Desmond Tutu.

24-26 August 2011

Manuel Castells conducts a three-day seminar at STIAS on *Informational Development and Human Development: South Africa in a Global Perspective*. Participants include Moeletsi Mbeki (political commentator), Joel Netshitenzhe (Executive Director of Mapungubwe Institute for Strategic Reflection, and member of the National Planning Commission), the Director-General of the Department of Economic Development, Richard Levin, and a number of leading academics and business leaders.



From left: Manuel Castells, Wendy Appelbaum, Moeletsi Mbeki, Hendrik Geyer

“What a pleasure and privilege in this florid, luxuriant place to enjoy one’s own work, good company and the feeling that this, South Africa generally and Stellenbosch in particular, is the appropriate environment for *Homo sapiens*. The shrieking morning birds, the cuckoos and the clicking beautiful people. STIAS is the ultimate in academic comfort and inspiration.”

Lynn Margulis



22 November 2011

Lynn Margulis, Distinguished Professor in the Department of Geosciences at the University of Massachusetts and 2010 STIAS fellow, best known for her theory on the origin of eukaryotic organelles and her contribution to endosymbiotic theory, dies at her home in Amherst.

31 July 2011

STIAS mourns the loss of Paul Cilliers. As a member of the STIAS Fellowship and Programme Committee his experience and wisdom underpinned his unique contribution to establish and expand the STIAS research programme.



October 2011

Desmond Smith, Chairman of the Board of STIAS, is inaugurated as President of the International Actuarial Association.

9-11 November 2011

Second Peter Wall Colloquium Abroad at STIAS – ‘Many Voices One Song’ – *Health-Promoting Schools* – attended by local and international participants, and held in collaboration with the SU Faculty of Medicine and Health Sciences.



STIAS FELLOWS AND PROJECTS

In 2011, 56 STIAS fellows participated in the programme for a total of 115 fellowship months. In addition, 12 visiting scholars and four project leaders from Stellenbosch University (SU) were involved in the programme.

The STIAS research programme is built around resident fellowships and fellows are invited individually or on the basis of a group proposal. A number of fellows from outside the formal academic ranks are invited to contribute to the STIAS programme of facilitating communication between academe and the policy/decision making environments. SU researchers have acted as project leaders in a few projects, in which case they spend time at the Wallenberg Research Centre with the STIAS fellows participating in the project.

STIAS fellowship are identified in consultation with various stakeholder and advisory structures. There is no formal application procedure and STIAS does not consider unsolicited proposals. STIAS will, however, respond to enquiries and brief letters of intent. Final decision lies with the Director who acts on recommendations by the STIAS Fellowship and Research Committee and Research Advisory Board as well as the Swedish-STIAS Advisory Board (SSAB).

STIAS promotes innovative research of the highest level on issues of the highest relevance for South Africa and for the continent. Candidates for

Back, from left:
Andries Gouws, Hendrik Geyer,
Richard Wrangham, Dirkie Smit,
Bernard Lategan, Jan-Hendrik Hofmeyr,
Bob Hepple, Robert Mattes, Hans Joas,
Walter Bodmer, Heribert Adam,
Gideon Wolfaardt

Front, from left:
Adam Wilkins, Henry Bernstein,
Sydney Brenner, Evelyn Fox Keller,
Rosemary Coombe, Kogila Moodley,
Pauline Peters, Bridget O'Laughlin,
Basarab Nicolescu, Ingrid Winterbach,
Michael Lipton

SELECTED PROJECT PROFILES

“We cannot imagine another academic institution that combines tranquillity and stimulating interaction with outstanding cosmopolitan minds in such an ideal setting.”

*Heribert Adam,
Simon Fraser University, and
Kogila Moodley,
University of British Columbia*

Immanuel Wallerstein (Yale University)

Linear vs. polarising trends in world social processes

Over the past two centuries, the dominant view in social science has been that the modern world shows a pattern of linear development in which all positive trends go upward in more or less linear fashion (albeit perhaps at an uncertain speed), and that therefore over time discrepancies between the leaders and the laggards are overcome, toward a relatively homogenised world. This view was shared by classical and neoclassical economics, by what was called Whig historiography, and by most of traditional sociology and anthropology. Classical or orthodox Marxism, while very opposed to a liberal Weltanschauung, shared, by and large, the belief in the inevitability of progress and the linear upward pattern of social processes.

In the post-1945 period, a number of analysts began to contest this linear model. Rather than viewing the modern world as a process of homogenisation and therefore of overcoming gaps, many social scientists began to argue that the modern world was one of heterogenisation and polarisation, indeed a pattern of escalating polarisation, which was itself the outcome of the way in which the modern world was structured.

An intellectual collaboration of ten research working groups has been evaluating the empirical evidence in this fundamental debate. The research has been large in scale and long in duration. The object of analysis has been the existing world system as a whole over the whole of its effective existence of the past 500 years.

Richard Wrangham (Harvard University)

Cooking and increased energy value of meat

Processing food extensively by thermal and non-thermal techniques is a unique and universal human practice. It increases palatability and edibility and has been argued to increase energy value. Although energy gain is a well-known effect of cooking starch-rich foods, the idea that the same applies to meat had never been previously tested. This study revealed that cooked meat provides more energy than raw meat, thereby challenging the current food labelling system and suggesting that humans are evolutionarily adapted to benefit from cooking. The findings of this project were published in the *Proceedings of the National Academy of Sciences of the USA* in 2011.



Immanuel Wallerstein

SELECTED PROJECT PROFILES continued



Bridget O’Laughlin (Institute of Social Studies, The Hague)

Project leader: Ben Cousins (University of the Western Cape)

Agro-food regimes, rural poverty and social change in southern Africa

“With Henry Bernstein, Pauline Peters and James Ferguson, I came to STIAS for the project on *Agro-food regimes, rural poverty and social change in southern Africa*, organised by Ben Cousins, NRF Chair at PLAAS, University of the Western Cape. Our work focused particularly on the context and implications for patterns of rural poverty of changing forms of ownership and use of land. One of our principal concerns was locating South African rural poverty within the broader dynamics of poverty within the southern African region. We used different forms of discussion and reflection – individual research, reading and writing, discussions of papers among ourselves and public presentations – to identify core issues and questions.”

“I have found (as hoped) the STIAS experience to be a very productive one. In great measure this has to do with the quality of participation in the research group organised by Cousins. Yet it also has to do with the research climate that STIAS itself fosters, in not entirely definable ways. In general, I think that the STIAS formula for encouraging rather than enforcing interdisciplinary exchange, works. Most seminars were both accessible and challenging while lunchtime conversations were often stimulating, reflective and insightful.”

Adam Wilkins (University of Cambridge)

The evolutionary history of the human face, a multidisciplinary detective story

Like all complex animals, humans have faces. Indeed, the human face is unconsciously used as the standard to which all other animal faces are compared, in terms of “oddness” or similarity to the human face. Yet, the human face is highly distinctive in several ways, both in its physical features and in its employment in social encounters; as an instant badge of identification and its constant employment in conveying feelings and intentions in speech with conspecifics. Like all biological characteristics, the human face must be a product of evolution but, how precisely, did it come to have the properties it does? The aim of the project is a book on this subject for the general reader. The book (with the provisional title *Making Faces: the evolutionary genesis of the human face*) will trace the stages of evolution of vertebrate faces, from the earliest fishes, to the first primates and then to humans; describe the co-evolution of the brain and the face; and discuss the selective pressures and genetic changes that created the human face, within the larger context of human evolution.

“My experience at STIAS reinforced how valuable it is to work as part of a group, and STIAS is to be commended for approaching Ben Cousins to bring the four of us here for a programme of interaction, reading and reflection, and participation... another strong feature is its regional strengths which enabled us to consider South Africa in regional perspective.”

*Henry Bernstein,
University of London*

“I wish to commend the University of Stellenbosch in the highest possible terms for establishing STIAS and the latter for providing exemplary facilities, structures, support and overt encouragement of highly creative work. Such a vibrant interdisciplinary ethos is the lifeblood of creative intellectual work. While lauding STIAS for its bold, forward-looking approach, I wish also to express my profound gratitude for the wonderful research opportunity it has afforded me.”

*George Pavlich,
University of Alberta*

Njabulo Ndebele (University of Cape Town)

The boxing economy of the Eastern Cape

The project uses a case study to explore the link between the national formal economy on the one hand, and on the other, local community-based economic cultures, where the latter may have been largely self-sustaining but interminably precarious. The case study concerns the so-called boxing economy of the Eastern Cape where the boxing culture of East London/Mdantsane has been phenomenally successful. For over three decades, and nicknamed ‘The Boxing Mecca’ of South Africa, it has produced no less than 20 world champions and more than 50 national champions.

This study is a reflective and speculative approach to this Eastern Cape boxing phenomenon, based on personal interviews and visits. It links the narratives of three legendary boxers from their respective generations; traces continuities and discontinuities in a boxing culture that reveals enormous potential as an industry, with a pipe line of new boxers that shows no sign of drying up; and asks questions about possibilities for local social upliftment through a home-grown entertainment industry. A book, *Behind Sweaty Windows: A Story of Boxing in the Eastern Cape*, is being prepared and illuminates questions such as “What do we learn about the society that has produced these boxers?” and “Where does the macro economy of big industries and national infrastructure come together with such a local economy for mutual sustenance, and at what points of convergence?”

Rosemary Coombe (York University)

The work of culture in an age of informational capital

The major project was to outline and pursue further research on the forthcoming book, titled *Intellectual Property and its Publics: The Work of Culture in an Era of Informational Capital*, which explores new pressures and tendencies to treat culture as a resource and the growing propensity to claim rights on cultural grounds under neoliberal capitalism. Topics addressed include the expansion of intellectual property protection and the growing use of intellectual property rhetoric in new regions and with respect to new forms of cultural attachment, new means of marking and marketing cultural goods, and the expansion of cultural heritage regimes. A number of subsections of the book worked on while in residence at STIAS were published as journal articles and book chapters in 2011 with several further in the pipeline.

A secondary project was the completion of a co-edited peer-reviewed volume on the legal concept of fair dealing (with respect to cultural materials) and its social practice in digital environments for which a book contract was offered.



Njabulo Ndebele



Project leaders: Ockert Dupper (Stellenbosch University), Kamala Sankaran (University of Delhi)

Fellows: Sir Bob Hepple (University of Cambridge), Alexander Graser (University of Regensburg), Tzehainesh Teklè (International Labour Organisation, Turin), Ingo Sarlet (Catholic University of Rio Grande do Sul), Moshe Cohen-Eliya (Academic Center of Law and Business, Ramat Gan)

Coworkers: Mario Santiago (Nacional Autónoma de México, Mexico), Yash Pal Ghai and Jill Cottrell (Katiba Institute), Chioma Agomo (University of Lagos), Hwok-Aun Lee (University of Malaya)

Affirmative action: a comparative study

In dealing with diversity and difference, many countries have moved from the relatively passive idea of non-discrimination to a more pro-active strategy of affirmative action. Affirmative action measures as a strategy to achieve equality has been adopted in several demographically diverse countries. In this project the focus was placed on a number of countries of the 'Global South', namely South Africa, Nigeria, India, Malaysia, Brazil, Mexico, Fiji and Israel. The choice of jurisdictions was informed by two considerations. The first relates to the dearth of studies on affirmative action in these jurisdictions. In the second place, affirmative action in the countries under review cover a range of different beneficiary groups, namely women (South Africa, Mexico, Nigeria, India and Israel), disadvantaged groups based on race/colour (South Africa and Brazil), disadvantaged minorities based on religion and nationality (Israel), disadvantaged classes or castes (India) and disadvantaged ethnic groups (Nigeria, Malaysia and Fiji). This has enabled the researchers to study the impact of affirmative action in very different contexts and to determine the advantages and disadvantages of using gender, race, religion, nationality, caste (or class) and ethnicity as the basis of redress measures. A book, *Affirmative Action: A View from the South*, co-edited by Dupper and Sankaran is expected to be published in 2013.

*Back, from left: Tzehainesh Teklè,
Ockert Dupper, Ingo Sarlet,
Moshe Cohen-Eliya
Front, from left: Hendrik Geyer,
Gerhard Lubbe, Kamala Sankaran*

SELECTED PROJECT PROFILES continued

**Heribert Adam (Simon Fraser University),
Kogila Moodley (University of British Columbia)**

Xenophobia, migrancy and multiculturalism

Different causes and expressions of xenophobia were analysed by comparing three countries: South Africa, Germany and Canada. On a spectrum of rejection of migrants, South Africa is situated at one extreme, with Germany in the middle, and Canada at the other extreme. In each country, different rationalisations are used for 'othering' and different policies have been adopted for dealing with legal and illegal migrants. This project aimed at a deeper understanding by probing xenophobia in the context of the general literature on ethnicity, nationalism and racism; contributing some neglected ethnographic data in each context, and drawing lessons about appropriate interventions and policies in multi-ethnic societies.

Examples for puzzling question are, for South Africa: why would the victims of Apartheid exclusion turn violently against fellow Africans and what does this imply for political education in the post-apartheid era? For Germany: why is assimilation now advocated and multiculturalism been declared a failure when it has hardly been implemented in the first place? For Canada: can the country's successful multiculturalism be exported and under what conditions can a modern welfare state be sustained and benefit from relatively high immigration rates?

During the first three months fellowship in 2011, the academic literature and media reporting on South African xenophobia was explored for a book project with the provisional title: *Integrating Difference: South African Experiences Compared*. The research aimed at probing the root causes of the May 2008 countrywide xenophobic violence against African migrants, whether such events could reoccur, whether public education had made a difference, and what the general state of political consciousness was among township youth. The book also compares South African xenophobia with similar tendencies in Europe and North America and theorises about differences. Knowledge about the conditions under which xenophobia waxes and wanes, how violent or dormant hostility towards outsiders expresses itself, which groups are 'othered' with which rationalisation, are all questions which needed to be understood for successful intervention.

June Sinclair (University of Pretoria)

Balancing social welfare and private maintenance: the alleviation of poverty in South Africa

South African (family) lawyers continue to focus on the private maintenance obligation as the primary instrument for alleviating poverty. In line with political and economic policy promoting a shift away from welfare to a developmental state, they underestimate the risks to our democracy and the maintenance of the rule of law arising from social unrest driven by the persistence of high levels of poverty and inequality, coupled with unfulfilled government promises of job creation and economic growth. An interpretation by the courts of the socio-economic right to social assistance which would be faithful to the transformational vision of the Constitution formed the central tenet of the project.

An article entitled *Poverty: Giving meaning to the right to social assistance*, focusing mainly on the constitutional-law issues, will be published in the *Stellenbosch Law Review* in 2012.

Project leader: Dirkie Smit (Stellenbosch University)

Fellows: Hans Joas (University of Erfurt/University of Freiburg), Wolfgang Huber (Humboldt University of Berlin/University of Heidelberg)

Researcher: Bernard Lategan (Stellenbosch University)

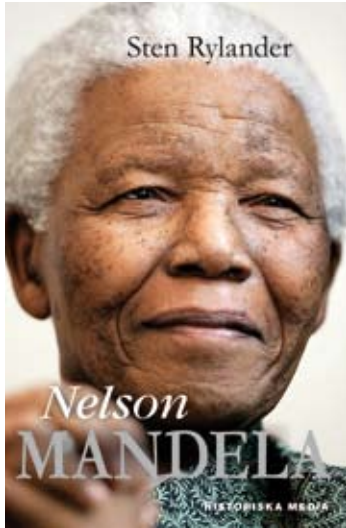
Faith and fabric: the status of 'secular modernity' in an African context

Relations between 'faith' and the 'fabric' – whether political, social, economic, cultural or moral – of communities, societies and the global world are increasingly studied in many disciplines. This is not primarily so because of the popular claim that 'religion is back' and the fact that the so-called secularisation theory is today rejected by many, but rather since many scholars increasingly recognise the public role of faith. 'Faith' not in the sense of religious convictions, communities and traditions, but in the sense of basic axioms and values, core beliefs and commitments (Taylor), cardinal convictions (Huber), and notions of the sacred (Joas), in short, the faith of the faithless (Critchley). Even the controversial claim describing all modern political notions as secular theology (Carl Schmitt) receives renewed attention. The Wissenschaftskolleg in Berlin hosted a project studying the role of such beliefs and commitments in secular modernity. Against this background, scholars from diverse disciplines and backgrounds known for creative contributions to these questions have been invited as fellows in this ongoing STIAS project, to pursue their own case studies and to revisit these issues in an African context.

“...(we) enjoyed the atmosphere of concentrated research as well as the participation in the community life of STIAS, of Stellenbosch University and of Stellenbosch as such. We got generous invitations [from] different families and fellows...our solidarity with South Africa and our special relationship with Stellenbosch became deepened again. ... (we) want to express our deep and sincere gratitude to STIAS... for the privilege to live for ten weeks in this ‘creative space for the mind’. These weeks will hold a very special place in our memory.”

*Wolfgang Huber,
Humboldt University of Berlin/
University of Heidelberg*

SELECTED PROJECT PROFILES continued



Sten Rylander (Former Swedish ambassador to Angola, Namibia, Tanzania and Zimbabwe)

Nelson Mandela – about tolerance and leadership (a biography)

The project involved the final editing and fine-tuning of the main body of the book, *Nelson Mandela – Tolerance and Leadership*, published in 2012. Through the assistance of fellow colleagues at STIAS it provided the opportunity of interviewing key persons who could add value to the content of the book. Furthermore, with the assistance of the Nelson Mandela Foundation it was also possible to visit the Eastern Cape in order to explore Nelson Mandela's childhood and upbringing (East London, University of Fort Hare, Mthatha, Qunu and Mvezo). A major aspect of the project involved the production of a special appendix to the book about the Mandela legacy institutions and other organisations which were relevant in this connection.

Jean Comaroff and John Comaroff (University of Chicago)

Theory from the south

The 'Global South' is rarely seen as a source of explanation for world historical events. Yet, as nation-states of the north experience increasing fiscal meltdown, privatisation, corruption, ethnic conflict, and joblessness, it seems as though they are evolving southward, so to speak, in both positive and problematic ways. Is this so? How? In what measure? In the book, *Theory from the South: Or, how Euro-America is evolving toward Africa*, published in November 2011, these questions are examined, seeking to reverse the usual order of things. In particular, the question is asked how these things might be understood anew with theory developed in the south. This vantage renders key problems of our time at once strange and familiar, giving an ironic twist to the evolutionary pathways long assumed by social scientists.

The truth about crime

Many African postcolonies are haunted by the spectre of the waning efficacy of law enforcement, the ambiguity of authority, and the apparent abandonment of subjects by the state. *The Truth about Crime*, a book in progress, examines the problematic relation of law, theology, and sovereignty in contemporary African polities, especially in post-apartheid South Africa. It focuses on the meaning of crime to citizens of all stripes, on the 'metaphysics of disorder' palpable in popular culture, and on the kinds of forensic fetishes that seem to be conjured in its wake.

Vincent Brümmer (University of Utrecht)

Piety versus orthodoxy

The relationship between two very different types of theology that have characterised theological thinking in the Dutch Reformed Church in South Africa during the past 150 years is explored: mystical theology reflecting on the assumptions underlying the personal piety of believers, and confessionalism aimed at defending orthodox doctrine. The interaction between these two types of theology has been analysed in the light of two great theological controversies in South Africa: the controversy between modernism and personal mysticism in the 1860s, and the controversy in the 1920s between Johannes du Plessis and the confessionalism that became dominant in the Dutch Reformed Church since then. Most of the project was completed in 2011. It will be finalised at STIAS in September and October 2012 and culminate in a book.

Mark van Regenmortel (French National Centre for Scientific Research (CNRS))

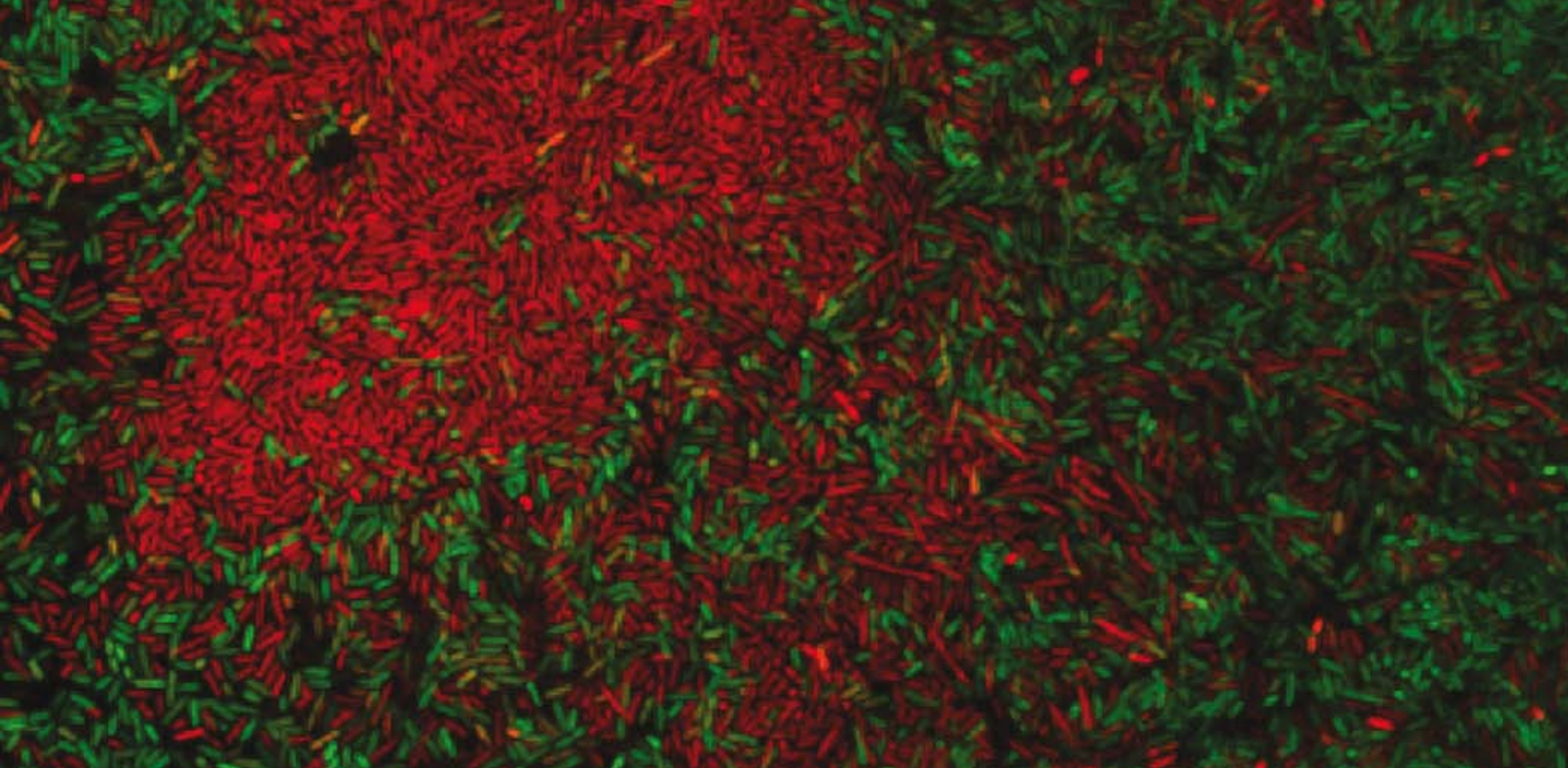
Pitfalls of reductionism in AIDS vaccine research

The reductionist mind-set assumes that since biological systems are composed solely of atoms and molecules, they can be fully described and understood in terms of the physicochemical properties of their constituent parts. However, a complex biological system such as the immune system possesses many emergent properties arising from interactions between the parts which do not exist in the individual components of the system. In addition, vaccination is an immunological intervention that is meaningful only at the level of entire organisms, since organs, tissues or molecules cannot be vaccinated. Protection against disease resulting from vaccination is a complex biological phenomenon involving a host, a pathogen and antibodies which cannot be reduced to the chemical level of a molecular interaction. Reverse vaccinology which tries to generate an AIDS vaccine from the known crystallographic structure of matured antibodies bound to viral antigens has been totally unsuccessful, partly because investigators have overlooked the extensive antibody affinity maturation required to obtain protective HIV antibodies. Vaccine antigens designed to fit matured antibodies are not effective AIDS vaccines because the corresponding B-cell receptors needed to elicit protective antibodies are not present in vaccinated individuals who have not yet encountered the virus.

This research led to two scientific papers (accepted for publication in 2012).

“... the physical space that is STIAS, makes this space of thinking a reality.”

*Karin van Marle,
University of Pretoria*



Above: The vast majority of bacteria benefit humans, and we increasingly identify new forms of obligate mutualism between humans and bacteria. These beneficial bacteria greatly outweigh pathogenic species that cause human disease and mortality although both groups have a common trait – namely that they seldom exist as individual species. Shown in green in this confocal scanning laser micrograph is a bacterial species typically associated with infections of the lungs of cystic fibrosis patients, integrated with a number of other bacterial species, stained red here. Often, these other species are non-pathogenic, but as a cooperative consortium they protect each other against unfavourable conditions such as antibiotics or the human immune system. The explosion of new information at the cell, protein and gene level, accentuates the need to apply expertise from various fields to unravel these interactions.

Gideon Wolfaardt (Ryerson University)

Complex microbial communities: application of supply-demand principles to advance the science from describing diversity to explaining diversity

Gideon Wolfaardt collaborated with Jan-Hendrik Hofmeyr (SU and STIAS) on, amongst others, the principles of supply and demand as driving force of metabolic activity, and incorporated them into existing experimental data sets to explore adaptive behaviour amongst bacteria as a basis for the maintenance of microbial community function in environmental processes; and a state-of-science review related to microbiological considerations for repository engineering and long-term safety of deep geological repositories of nuclear waste, as well as formulating recommendations for the way forward to predict the potential impact of microbial activity on the stability of these repositories. An outcome of these recommendations is a four-year research project that will commence in September 2012. A number of scientific manuscripts have also been prepared with at least one to be published in 2012.



SELECTED PROJECT PROFILES continued



Susan Greenfield

Susan Greenfield (University of Oxford)

You, me and I

The project at STIAS involved the writing of a monograph commissioned by Notting Hill Editions on 'Identity'. The book, *You and me*, was published in November 2011 and can be summarised as follows: Identity is a term much used yet hard to define. Perhaps for this reason, the concept has long been a favourite with philosophers and for the very same reason has been avoided by brain scientists – until now. In this neurobiological exploration of identity, Greenfield briefly reviews the social perspective from fingerprints, to faces, to signatures of the many ways we try to identify ourselves, – in vain. The psychiatric perspective however does offer some valuable clues that then lead to an excursion into the physical brain: the neuroscience perspective. But identity cannot just be an objective phenomenon: hence any pertinent brain phenomena have to be seen also from an individual perspective. Armed with the insights gained from these diverse approaches, Greenfield attempts to conceive of actual scenarios in the physical brain that would correspond to familiar examples of identity. However, given the physical brain adapts exquisitely to the environment, and the 21st century environment is changing in unprecedented ways, the question is posed whether we are facing correspondingly unprecedented changes to our identity.

Ingrid Winterbach (Artist-in-residence)

Die aanspraak van lewende wesens

"I was a fellow at STIAS for six months during the period January to June 2011. During this time I wrote the bulk of a novel, which I started in 2010, and which I was able to complete in 2011. In November 2011, I submitted the manuscript of the novel for entry in a competition issued by NB Books, entitled *Die Groot Afrikaanse Romanwedstryd*. In March (2012) my manuscript was awarded first place in this competition. The novel, *Die aanspraak van lewende wesens*, is due for publication in September 2012. The time at my disposal, ideal working conditions and generous financial aid provided by STIAS, enabled me to spend the above-mentioned six months writing, unhampered by any of my usual responsibilities."

"The institute is global in its reach and local in its roots, and this unique combination makes it one of the most interesting places of high scholarship in the world. It is also a most pleasant and efficient institution with a dedicated staff that makes everything smooth, easy, and effective."

Manuel Castells,
University of Southern California/
Open University of Catalonia



“STIAS is truly a conducive space to stimulate the mind and spirit...it was indeed an honour for me to be one of the scholars from an African university, outside South Africa, to be invited to this very prestigious place, which caters for world-class scholars.”

*Herman Batibo,
University of Botswana*

Frank Michelman (Harvard University)

Liberal constitutionalism, property rights, and the assault on poverty

The project analyses three factors in play: a national project of post-colonial recovery from distributive injustice, prominently including land reform; express constitutional protection for property rights; and a constitution whose other main features bring it recognisably within the broad historical tradition of liberal constitutionalism. To what extent does or must that constitution's overall liberal affiliation or its inclusion of a property clause impede the social-transformation project?

It is argued and concluded that the attractions of liberal constitutionalism do not come necessarily laden with a counter-reformative property clause. In what is believed to be a proper liberal view, the office of a constitutional property clause is to signal recognition of the connection between a decent respect for property and a decent respect for human dignity and freedom; it is not, however, to provide defences for property rights beyond what constitutional protections for freedom, security, dignity, equality, and legality would anyway provide.

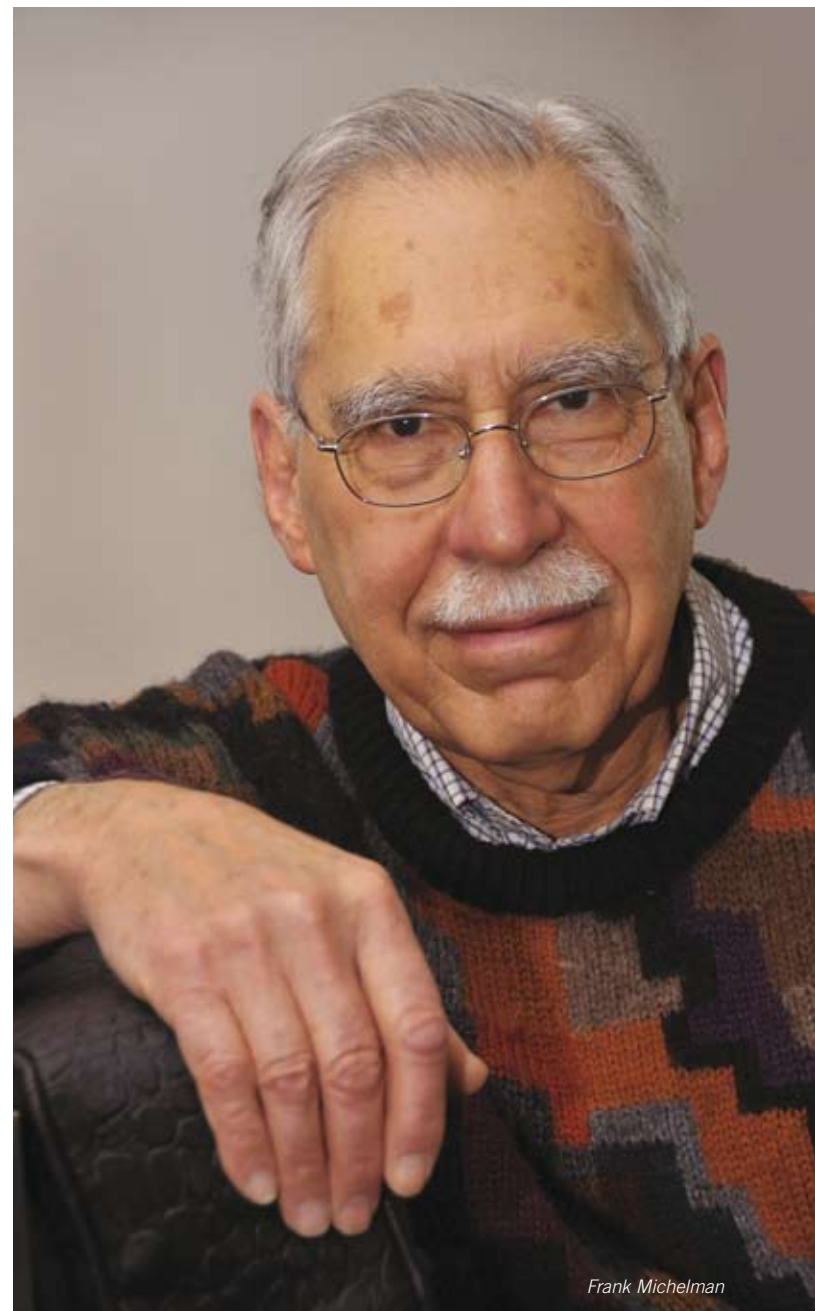
It may, even so, be true that the conditions of distributive justice within a national society will not always be achievable by means of meeting the demands of an up-and-running liberal constitutional order. A broader claim is that the fault in such cases does not, however, lie in a liberal conception of justice. An article based on this work will appear in a 2012 issue of the *Stellenbosch Law Review*.

Ulf Engel (University of Leipzig)

The African Union's emerging policy on unconstitutional changes of government

The research project investigated unconstitutional changes of government. Roughly since 2005, a regression in the quality of many formally established democracies, cases of election-related violence, an increasing number of coups d'état and third-term debates can be observed. This has prompted the African Union and the regional economic communities to develop policy responses and a division of labour of their newly emerging mediation policies.

Based on Engel's research and an international workshop on *New trends in the mediation of conflicts in Africa – Emerging policy scripts and divisions of labour* held at STIAS in September 2011, a 250-page volume was edited which will be published with Leipzig University Press in 2012.



Frank Michelman

SELECTED PROJECT PROFILES continued

Isabel Hofmeyr (University of the Witwatersrand)

Gandhi's Printing Press: global trajectories of print culture in the Indian Ocean

During his South African years (1893-1914), Mohandas Gandhi began fashioning his world-changing ideas on satyagraha or passive resistance. But, he also practiced another kind of craft – running a printing press and publishing a newspaper. This project explored how Gandhi's experiences as a press proprietor, printer and publicist influenced his philosophies. Gandhian theories of reading and writing shaped his ideals of satyagraha. Gandhi also grappled with what we now call 'information overload'. Like many aspects of life, reading and writing were becoming driven by industrial rhythms. In this crucible, Gandhi sought to slow things down. Printing was decelerated through hand-operated technology while Gandhi created a slow-motion newspaper aimed at pausing rather than rushing ahead. Reading can only proceed at the pace of the body and in doing so, can slow down the relentless rhythms of industrial capitalism.

The book, *Gandhi's Printing Press: Experiments in Slow Reading*, has been accepted by Harvard University Press and will be published in 2013.

Duncan Brown (University of the Western Cape)

Are trout South African? or: a postcolonial fish

There has been substantial attention paid in literary and postcolonial studies to issues of environment and ecology, and especially the environmental transformations which colonial and imperial histories have wrought upon the (post) colony. There have been horrifying and hubristic interventions made by colonial authorities, whether in terms of the introduction of species (rabbits in Australia, black wattle, brambles and prickly pears in South Africa), physical alterations such as building dams or irrigation schemes, or the unintended introductions of species (such as khaki-bos and black jacks in the animal fodder brought into South Africa). Leaving aside the more extreme and obvious problems such as those mentioned above, the question posed in this project was: at what point do changes to landscape, fauna and flora become historical – for better or worse part of the history of human settlement in the region. Humans have always impacted on the environment. In terms of what we classify as indigenous, how far back do we turn the clock? And does the trout, which is used partly as metonymy for settler history and whose forebears arrived in South Africa at around the same time as those of Brown have a legitimate place in the landscape: has it become (like so many other species which have their origins outside the subcontinent but which are part of the everyday register of South Africanness – Nguni cattle, *Africanis* dogs, mealies, bushpigs, pumpkins) if not indigenous, then at least indigenised?

Are Trout South African? has been accepted as book manuscript by Macmillan in their Picador Africa series and is due for publication in 2012.

Jaap Spier (Maastricht University)

Law-making for global crisis situations

More likely than not, the world will be facing a series of serious crises, connected to climate change, environmental disasters, natural catastrophes, shortage of all kinds of raw materials and sources of mineral energy, as well as new financial crises. To the extent they are man-made; they probably have common denominators, most importantly a short-term view of those in responsible positions and conflicts of interest of the same.

If we cannot stem the tide, the consequences will be of an unprecedented magnitude in terms of personal suffering and financial harm for present and future generations. The project explored whether legal means could be used to avoid crises and, to the extent this would not be the case, how to cope with them. Answering the latter question required a balancing of the very different interests of all concerned (such as 'developed' and 'less developed' countries as well as present and future generations). The angle was mainly intradisciplinary (international, national and human rights law).

The first outcome of the project is the book, *Shaping the law for global crises*, to be published in 2012 by Eleven International Publishing. The project will be continued at STIAS in 2012 in collaboration with a number of invited STIAS fellows and local Stellenbosch University researchers.

Andrew Macnab (University of British Columbia)

Near infrared spectroscopy (NIRS): non-invasive monitoring of tissue haemodynamics and oxygenation

Globally, a moral imperative exists to ensure that all children are provided with the resources and environment necessary to enable them to reach their individual potential, and the call for investment to improve the health of children is almost universal. In parallel, technological approaches are being sought to simplify prevention, diagnosis and management of disease. However, national resources for health are sparse and massive demands already exist, hence much must be achieved through health promotion at a community level, and to be viable any novel technologies must be simple and/or cost effective. (Please see page 21, '*Many Voices One Song*').

Photonic devices (those using light energy) can monitor a range of physiologic parameters through the skin. Ongoing advances with miniature light emitting diodes and software make non-invasive real time measurement and imaging of brain and other tissues possible. Novel applications of NIRS related to bladder function have been developed (worldwide the morbidity and mortality related to urologic diseases are considerable). Research at STIAS advanced the scope and potential of miniature NIRS devices that will improve quality of life for children, patients with spinal cord injury and pregnant women.

“What makes this visit not only memorable but also intellectually stimulating and exciting was the opportunity to interact with other fellows in the programme. Whether it was Isabel Hofmeyr talking to me about Gandhi and his theory on reading or Vincent Brümmer guiding me through the complexities of a theological debate, the end result was an education in the great Socratic tradition.”

*Athol Fugard,
Artist-in-residence*



**Andrew Macnab (University of British Columbia),
Arabat Kasangaki (Makerere University)**

‘Many Voices One Song’ – health-promoting schools: evidence, strategies, challenges and prospects

Health-promoting schools (HPS) have proven potential for positively impacting the determinants of health, and technologies employing light now show promise in a range of relevant health care applications. The World Health Organization defines a health-promoting school as one that “uses a whole-school approach to enhance the health and educational outcomes of children through teaching and learning experiences initiated in the schools.”

The knowledge and practices acquired provide individuals and communities with greater control over determinants of health. A Peter Wall Institute for Advanced Studies International Colloquium Abroad in November 2011 brought together experts in HPS at STIAS to review the lessons learned to date, and define the key elements and optimum processes for establishing and sustaining effective health-promoting schools. A consensus statement to guide further expansion of HPS programmes particularly in sub-Saharan Africa is to be published, and a focus issue of health education of the papers presented is in preparation. One paper has been published in 2011 with a further four due in 2012. (Please also see the project about *Near infrared spectroscopy* on the previous page.)



Andrew Macnab

STIAS FELLOWS AND PROJECTS LIST

STIAS fellows

Adam, Heribert

Simon Fraser University
Xenophobia in South Africa: causes and interventions (with Kogila Moodley)

Bernstein, Henry

University of London
Agro-food regimes, rural poverty and social change in southern Africa (project leader: Ben Cousins, University of the Western Cape)

Bodmer, Sir Walter

University of Oxford
Human evolution (Sydney Brenner workshop)

Brenner, Sydney (visiting fellow*)

University of Cambridge
Human evolution (project/workshop leader)
*one of five permanent visiting fellows at STIAS

Duncan Brown

University of the Western Cape
Are trout South African? or: a postcolonial fish

Brümmer, Vincent

University of Utrecht
Piety versus orthodoxy

Canagarajah, Athelstan

Pennsylvania State University
Literacy practices of multilingual students

Castells, Manuel

University of Southern California/
Open University of Catalonia
Informational development and human development: a comparative approach with implications for South Africa

Comaroff, Jean

University of Chicago
The metaphysics of disorder: policing the post colony (with John Comaroff)

Comaroff, John

University of Chicago
The metaphysics of disorder: policing the post colony (with Jean Comaroff)

Coombe, Rosemary

York University
The work of culture in an age of informational capital

Cousins, Ben

University of the Western Cape
Agro-food regimes, rural poverty and social change in southern Africa (project leader)

Engel, Ulf

University of Leipzig
The African Union's emerging policy on unconstitutional changes of government

Ferguson, James

Stanford University
Agro-food regimes, rural poverty and social change in southern Africa (project leader: Ben Cousins, University of the Western Cape)

Fox Keller, Evelyn

Massachusetts Institute of Technology
Life and the physics of matter

Fraser, Nancy

New School for Social Research, New York
Marketisation, social protection, emancipation: toward a neo-Polanyian conception of capitalist crisis

Friedmann, Harriet

University of Toronto
Agro-food regimes, rural poverty and social change in southern Africa (project leader: Ben Cousins, University of the Western Cape)

Fugard, Athol

Artist-in-residence
Karretjie people of the Karoo - a play based on 'the itinerant group of sheep shearers in the Karoo who have now virtually disappeared'

Greenfield, Baroness Susan

University of Oxford
The brain of the 21st century: from basic neuroscience to social policy

Hepple, Sir C Robert (Bob)

University of Cambridge
New ways of enforcing social and economic rights, with special reference to litigation and human rights commissions as means of triggering 'meaningful engagement'

Higgins, John

University of Cape Town
Book publication for the Routledge Critical Thinkers series (on Marx)

Hofmeyr, Isabel

University of the Witwatersrand
Gandhi's Printing Press: global trajectories of print culture in the Indian Ocean

Howard, Jonathan

University of Cologne
Human evolution (Sydney Brenner workshop)

Huber, Wolfgang

Humboldt University of Berlin/
University of Heidelberg
Faith and fabric (project leader: Dirkie Smit, Stellenbosch University)

Joas, Hans

University of Erfurt/University of Freiburg
Faith and fabric (project leader: Dirkie Smit, Stellenbosch University)

Kadalie, Rhoda

Impumelelo Social Innovations Centre
Learning from social innovations in rural development

Kaganof, Aryan

Artist-in-residence
Developing technology for the creation of digital film media from a mobile source

Kasangaki, Arabat

Makerere University
'Many Voices One Song' - Health-promoting schools: evidence, strategies, challenges and prospects (with Andrew Macnab)

Lipton, Michael

University of Sussex
Demography and poverty

Macnab, Andrew

University of British Columbia
'Many Voices One Song' - Health-promoting schools: evidence, strategies, challenges and prospects (with Arabat Kasangaki)

Mattes, Robert

University of Cape Town
Institutions, conflict, and democratic governance in the new South Africa

Metz, Thaddeus

University of Johannesburg
African moral philosophy

Michelman, Frank

Harvard University
Jurisprudence of the South African constitutional court - a comparative study

Moodley, Kogila

University of British Columbia
Xenophobia in South Africa: causes and interventions (with Heribert Adam)

Morris, Rosalind

Columbia University
The Sefika project for re-animating African ethics and re-imagining African futures

Muysken, Pieter

Radboud University
Roots of ethnolects/ethnolects in South Africa

Nicolescu, Basarab

French National Centre for Scientific Research (CNRS)
Science and culture

Ndebele, Njabulo

University of Cape Town
The boxing economy of the Eastern Cape (first in a planned series of books dealing with key developmental challenges faced by South Africa's emergent democracy)

O'Laughlin, Bridget

Institute of Social Studies, The Hague
Agro-food regimes, rural poverty and social change in southern Africa (project leader: Ben Cousins, University of the Western Cape)

Padayachee, Vishnu

University of KwaZulu-Natal
South African capitalism: global and local dynamics in an historical context

Rylander, Sten

former Swedish ambassador to Angola, Namibia, Tanzania and Zimbabwe
Biography of Nelson Mandela
 (in Swedish)

Peters, Pauline

Harvard University
Agro-food regimes, rural poverty and social change in southern Africa
 (project leader: Ben Cousins, University Western Cape)

Sanders, Jeffrey

United Nations University
Understanding emergence

Sankaran, Kamala

University of Delhi
Affirmative action: a comparative study
 (project leaders: Ockert Dupper, Stellenbosch University; Kamala Sankaran, University of Delhi)

Sarlet, Ingo

Catholic University of Rio Grande do Sul
Affirmative action: a comparative study
 (project leaders: Ockert Dupper, Stellenbosch University; Kamala Sankaran, University of Delhi)

Sinclair, June

University of Pretoria
Balancing social welfare and private maintenance: the alleviation of poverty in South Africa

Spier, Jaap

Maastricht University
Lawmaking for global crisis situations

Thioub, Ibrahima

Université Cheikh Anta Diop
Chromatic identity in Africa: history and present

Van Haute, Philippe

Radboud University
A clinical anthropology
('patho-analysis of existence')

Van Regenmortel, Marc

French National Centre for Scientific Research (CNRS)
The failure of attempts to rationally design viral synthetic vaccines

Wallerstein, Immanuel

Yale University
Linear vs. polarising trends in world social processes

Wilkins, Adam

University of Cambridge
Making faces: a history of the human face

Winterbach, Ingrid

Artist-in-residence
'Die aanspraak van lewende wesens'

Wolfaardt, Gideon

Ryerson University
Complex microbial communities: application of supply-demand principles to advance the science from describing diversity to explaining diversity

Wolkenhauer, Olaf

University of Rostock
Multilevel systems and whole-part relations

Wrangham, Richard

Harvard University
Human evolution (Sydney Brenner workshop)

Visiting scholars**Cohen-Eliya, Moshe**

Academic Centre for Law and Business, Ramat Gan
Affirmative action: a comparative study
 (project leaders: Ockert Dupper, Stellenbosch University; Kamala Sankaran, University of Delhi)

Fuchs, Christopher

Perimeter Institute for Theoretical Physics
Bayesian statistics in quantum mechanics

Gouws, Andries

University of KwaZulu-Natal
 Artist-in-residence
Painting

Kelso, Janet

Max Planck Institute for Evolutionary Anthropology
Human evolution (Sydney Brenner workshop)

Magnusson, Lars

Uppsala University
Comparative conceptual history and global translations with a focus on African languages in European comparison

Schack, Ruediger

Royal Holloway, University of London
Bayesian statistics in quantum mechanics

Strath, Bo

University of Helsinki
Comparative conceptual history and global translations with a focus on African languages in European comparison

Tabensky, Pedro

Rhodes University
African moral philosophy

Teklè, Tzehainesh

International Training Centre of the International Labour Organisation
Affirmative action: a comparative study
 (project leaders: Ockert Dupper, Stellenbosch University; Kamala Sankaran, University of Delhi)

Viljoen, Frans

University of Pretoria
STIAS African programme

Zaretsky, Eli

New School for Social Research, New York
The idea of a left

Znojil, Miloslav

Nuclear Physics Institute ASCR
Non-hermitian quantum mechanics

Stellenbosch University project leaders**Anthonissen, Christine**

Department of General Linguistics
Ethnolects in South Africa

Dupper, Ockert

Faculty of Law
Affirmative action: a comparative study

Rewitzky, Ingrid

Department of Mathematics
Understanding emergence

Smit, Dirkie

Faculty of Theology
Faith and fabric

“...this was one of the best research experiences I have ever had. You have certainly created a most impressive facility for sustained and in-depth scholarly work.”

*Ingo Sarlet,
 Catholic University of
 Rio Grande do Sul*

STIAS LECTURE SERIES

The STIAS public lecture series was instituted in 2009. STIAS lectures are held on the campus of Stellenbosch University and afford campus communities of the Western Cape and the broader public an opportunity to learn about the STIAS research programme. These lectures range across many fields.



Lectures on the following topics were offered by STIAS fellows in 2011:

2 March

Evelyn Fox Keller, Massachusetts Institute of Technology
What is a rational response to catastrophic risk?

9 March

Richard Wrangham, Harvard University
Catching fire: how cooking made us human

31 March

Jonathan Jansen, University of the Free State
The politics of second generation knowledge

10 May

Nancy Fraser, New School for Social Research, New York
Can society be commodities all the way down? Neo-Polanyian reflections on the capitalist crisis

8 June

Susan Greenfield, University of Oxford
The brain of the 21st century: from basic neuroscience to social policy

15 June

Immanuel Wallerstein, Yale University
Linear vs. polarising trends in world social processes

26 July

Adam Wilkins, University of Cambridge
The 'domestication syndrome' of animals: a new hypothesis on one of Darwin's unsolved problems

16 August

Manuel Castells, University of Southern California/Open University of Catalonia
Socio-political movements in the Internet Age: From Cairo to Barcelona

2 November

Nancy Padian and Naline Sangrue, senior advisors to the President's Emergency Plan for AIDS Relief (PEPFAR)
Evaluation methods: Translating results to inform HIV/AIDS policy

10 November

International panel of experts (including Arabat Kasangaki (Makerere University), Donald Stewart (Griffith University), Albert Lee (Chinese University of Hong Kong), Andrew Macnab (University of British Columbia), Robert Woollard (University of British Columbia), Vinay Kamat (University of British Columbia), and Jimmy Volmink (Stellenbosch University)) participating in the PWIAS Colloquium Abroad at STIAS
'Many Voices One Song' – Health-promoting schools: evidence, strategies, challenges, prospects

“Less easy to itemise but equally significant were the many informal interactions I experienced with researchers at the workshops, seminars, colloquia, and conferences... conversations of this sort immeasurably enriched my thinking about social justice, the public sphere, and capitalist crisis. They are certain to spark further thoughts on these matters in my ongoing work.”

*Nancy Fraser,
New School for Social Research,
New York*

STIAS SEMINARS

A total of 23 seminars were presented in the fellows' seminar series held regularly at STIAS. In addition to STIAS lectures and seminars, fellows and visiting scholars also presented and participated in numerous colloquia and lectures in academic departments of universities in the Western Cape.

3 February

Heribert Adam, Simon Fraser University
South African lessons for Israeli/Palestinian peacemaking

10 February

Jeff Sanders, United Nations University
Computing as science

17 February

Ben Cousins, University of the Western Cape (and team)
Agro-food regimes, rural poverty and social change in southern Africa

24 February

Rosemary Coombe, York University
Bordering diversity and desire: the proliferation of place-based products in commerce

3 March

Wolfgang Huber, Humboldt University of Berlin/University of Heidelberg
Ethics in pluralism

10 March

Hans Joas, University of Erfurt/University of Freiburg
The sacredness of the person – on the origins of human rights

17 March

Basarab Nicolescu, French National Centre for Scientific Research (CNRS) and Babes-Bolyai University
Methodology of transdisciplinarity

24 March

Walter Bodmer, University of Oxford
Genetic variability and the characterisation of human populations and their interrelationships

31 March

Michael Lipton, University of Sussex
Relinking population change to resources

7 April

Kogila Moodley, University of British Columbia
The role of global political icons: comparing Gandhi and Mandela

14 April

Bob Mattes, University of Cape Town
South Africa's 'Born Free' generation: institutions, reforms and democratic citizenship

20 April

Bob Hepple, University of Cambridge
Negotiating change in the shadow of the law

5 May

Nancy Fraser, New School for Social Research, New York
Marketisation, social protection, emancipation: toward a post-Polanyian critique of neoliberalism

12 May

Adam Wilkins, University of Cambridge
The evolutionary history of the human face, a multidisciplinary detective story

19 May

Eli Zaretsky, New School for Social Research, New York
Why America needs a left: an historical argument

18 August

Suresh Canagarajah, New School for Social Research, New York
Globalisation, English, and local identities: in search of a model

25 August

Gideon Wolfaardt, Ryerson University
From genes to macro-effect: microbial communities as pathway for information flow

7 September

Ibrahim Thioub, Cheikh Anta Diop University
Chromatic identity and its meaning in African historiography of slavery and the slave trades

14 September

Duncan Brown, University of the Western Cape
Are trout South African? or: a postcolonial fish

22 September

Isabel Hofmeyr, University of the Witwatersrand
A Gandhian theory of reading

29 September

Ulf Engel, University of Leipzig
African union policy on unconstitutional changes of government – drafting a research agenda

16 November

Vincent Brümmer, University of Utrecht
Spirituality and the hermeneutics of faith

24 November

Sten Rylander, former Swedish ambassador to Angola, Namibia, Tanzania and Zimbabwe
Nelson Mandela – about tolerance and leadership

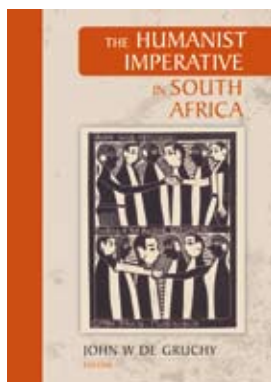


Vincent Brümmer

“The generously informal environment, the lunchtime discussions and ‘coffee-talks’, and the seminars offered by other STIAS fellows transformed the challenging intellectual environment to an inspiring and inspiring one.”

*Jagath Weerasinghe,
Institute of Archaeology,
University of Colombo*

STIAS (AND RELATED) PUBLICATIONS 2011



Books

John W de Gruchy (editor)

The Humanist Imperative in South Africa. SUN MeDIA, Stellenbosch (2011)
(First in a new series of STIAS publications; based on the STIAS project Towards a new humanism)

Susan Greenfield

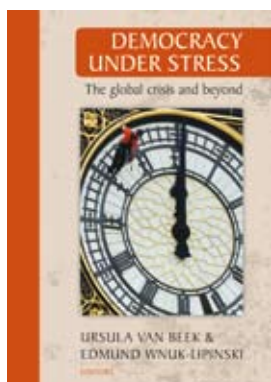
You and Me: The neuroscience of identity. Notting Hill Editions, London (2011)

Jean and John L Comaroff

Theory from the South: Or, How Euro-America is Evolving Toward Africa. Paradigm Publishers, Boulder (2011)

Ursula van Beek and Edmund Wnuk-Lipinski (eds)

Democracy Under Stress – The global crisis and beyond. Barbara Budrich Publishers, Leverkusen-Opladen (2011)
(Based on the STIAS project *The global crisis and the future of democracy*; scheduled for co-publication in 2012 by SUN MeDIA as the second volume in the STIAS series)



Chapters in books

Rosemary Coombe

Cultural Agencies: 'Constructing' Community Subjects and their Rights, in Mario Biagioli, Peter Jaszi, and Martha Woodmansee (eds), *Making and Unmaking Intellectual Property* 79-98. University of Chicago Press, Chicago (2011)

Rosemary Coombe

Possessing Culture: Political Economies of Community Subjects and their Properties, in Mark Busse and Veronica Strang (eds), *Ownership and Appropriation* 105-127. Berg Publishers, London (2011)

Journal Articles

David A Nichols, Robert Owen, Fan Zhang, Kip Thorne et al.

Visualizing spacetime curvature via frame-drag vortexes and tidal tendexes: General theory and weak-gravity applications
Physical Review D (2011) **84**(12) 151101-1 – 151101-4 DOI: 10.1103/PhysRevD.84.124014

Olaf Wolkenhauer, Darryl K Shibata, Mihajlo D Mesarovic

A stem cell niche dominance theorem
BMC Systems Biology 2011 **5**(4) 16pp DOI: 10.1186/1752-0509-5-4

Wolfgang Huber

Ethics as a standard
Zeitschrift für Evangelische Ethik (2011) **55**(4), 243-247

Jan Govaerts, Simone Zonetti

Quantized cosmological constant in 1+1 dimensional quantum gravity with coupled scalar matter
Classical and Quantum Gravity (2011) **28**(18), 185001 24pp DOI: 10.1088/0264-9381/28/18/185001

Ahmed Jellal, El Hassan Saidi and Hendrik B Geyer

A Matrix Model for $\nu_{k_1 k_2} = k_1 + k_2/k_1 * k_2$ Fractional Quantum Hall States
International Journal of Geometric Methods in Modern Physics (2011) **8**(3), 557-586

Wolfgang Huber

Ethics in Pluralism Lecture in honour of defiance on his 80th Rendtorff Birthday
Zeitschrift für Evangelische Ethik (2011) **55**(3), 168-178

Yvonne Schmitz, Olaf Wolkenhauer and Katja Rateitschak

Nucleo-cytoplasmic shuttling of APC can maximize beta-catenin/TCF concentration
Journal of Theoretical Biology (2011) **279**(1), 132-142

Wayne M Getz

Biomass transformation webs provide a unified approach to consumer-resource modelling
Ecology Letters (2011) **14**(2), 113-124

Robert Owen, Jeandrew Brink, Kip S Thorne et al.

Frame-dragging vortexes and tidal tendexes attached to colliding black holes: visualizing the curvature of spacetime
Physical Review Letters (2011) **106**(15), 151101-151104, DOI: 10.1103/PhysRevLett.106.151101

Manfred Drack and Olaf Wolkenhauer

System approaches of Weiss and Bertalanffy and their relevance for systems biology today

Seminars in Cancer Biology (2011) **21**(3), 150-155

Wayne M Getz and Norman Owen-Smith

Consumer-resource dynamics: quantity, quality, and allocation

Ecological Monographs, Concepts and Synthesis Articles

PLoS One (2011) **6**(1): e14539 DOI: 10.1371/journal.pone.0014539 (Public Library of Science, online), 18pp

Pavlich George

Sustaining sovereignty through law at the Cape Colony, 1795-1803

Journal of Forensic Psychology Practice (2011) **11**(2-3), 184-203

Jonathan C Howard, Julia P Hunna and Tobias Steinfeldt

The IRG protein-based resistance mechanism in mice and its relation to virulence in *Toxoplasma gondii*

Current Opinion in Microbiology (2011) **14**(4), 414-421 (invited review)

Rachel N Carmody, Gil S Weintraub, and Richard W Wrangham

Energetic consequences of thermal and non-thermal food processing

Proceedings of the National Academy of Sciences (USA) (2011) **108**(48), 19199-19203

Jannie Rossouw, Vishnu Padayachee and Adel Bosch

A comparison of inflation expectations and inflation credibility in South Africa: Results from survey data

South African Journal of Economic and Management Sciences (2011) **14**(3), 263-281

HE Wiegand and RH Gouws

Theoriebedingte Wörterbuchformprobleme und wörterbuchformbedingte

Benutzerprobleme I. (Theory-determined Dictionary Structure Problems and

Dictionary Structure Determined User Problems I. A Contribution to Dictionary Criticism and the Theory of Dictionary Structures.)

Lexikos (2011) **21**, 232-297

Andrea Marques, Lynn Stothers and Andrew Macnab

The status of pelvic floor muscle training for women

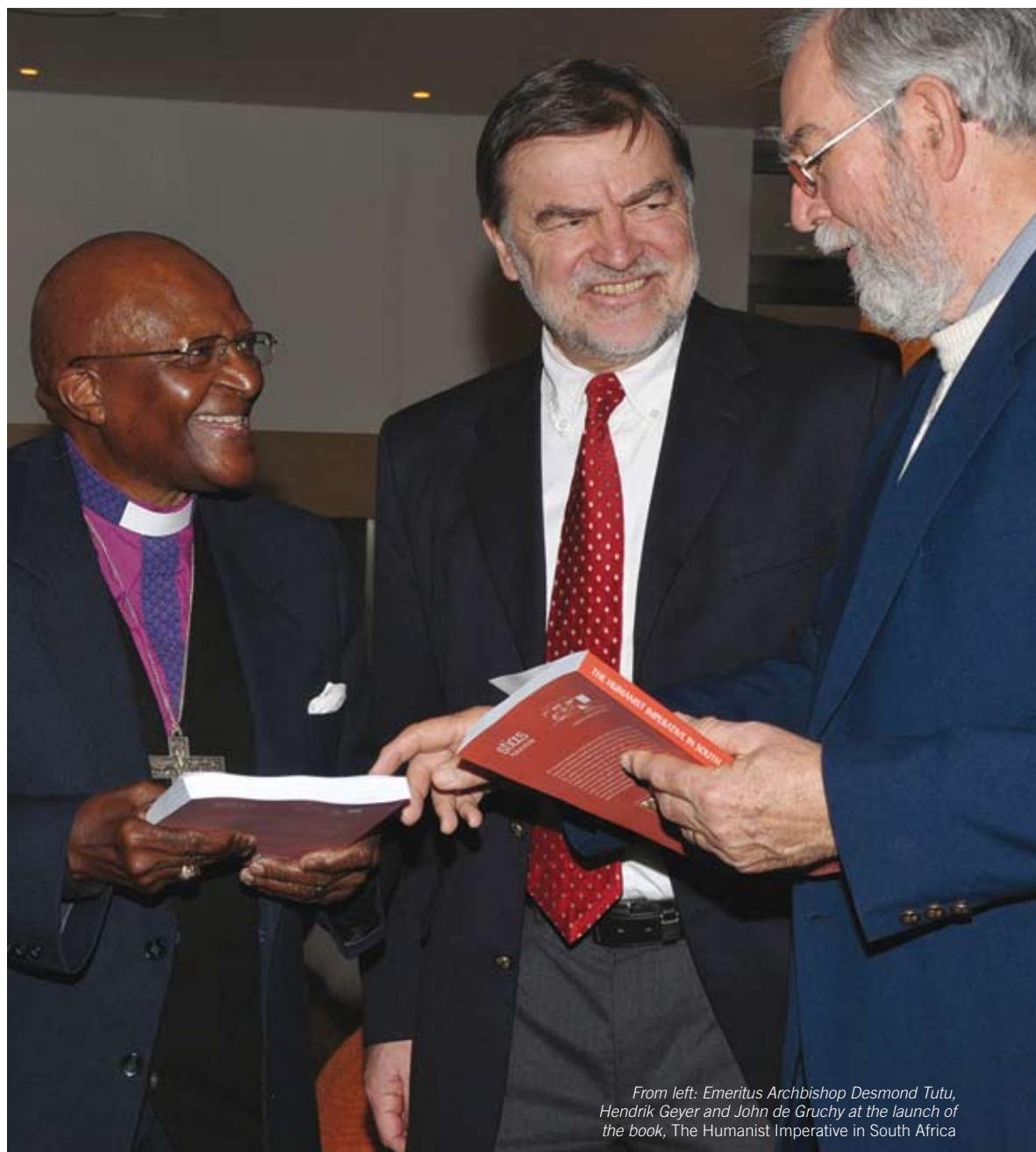
Canaj-Canadian Urological Association Journal (2011) **4**(6), 419-424

Macnab AJ, Kasangaki A, Gagnon F

Health-promoting schools provide community-based learning opportunities

conducive to careers in rural practice

Int J Fam Prac. (2011) **2011**, article ID 892518, DOI: 10.1155/2011/892518, 5pp



From left: Emeritus Archbishop Desmond Tutu, Hendrik Geyer and John de Gruchy at the launch of the book, *The Humanist Imperative in South Africa*

FUNDING AND GOVERNANCE

STIAS operates as a Section 21 company since May 2007.

Members of the Board of Directors

STIAS is governed by a Board of Directors which meets biannually. During 2011 the Board met on 18 April and 14 November.

Desmond Smith, Chair (Director of Companies)

Russel Botman (Rector and Vice-Chancellor, Stellenbosch University)

Dan Brändström (former Director, Bank of Sweden Tercentenary Foundation)

Cheryl de la Rey (Vice-Chancellor and Principal, University of Pretoria)

Hendrik Geyer (Director of STIAS)

Christof Heyns (Dean of the Law Faculty, University of Pretoria and United Nations special rapporteur on extrajudicial, summary or arbitrary executions)

Bernard Lategan (STIAS founding Director)

Göran Sandberg (Executive Director: Knut and Alice Wallenberg Foundation)

Raenette Taljaard (Department of Political Studies, University of Cape Town and former Member of Parliament)

Members of the STIAS company

James Gates (representative of STIAS Society of Fellows)

Hendrik Geyer (Director of STIAS)

Fritz Hahne (former Director of the African Institute for Mathematical Sciences)

Jan-Hendrik Hofmeyr (Centre for Studies in Complexity, Stellenbosch University)

Bernard Lategan (STIAS founding Director)

Joachim Nettelbeck (Wissenschaftskolleg, Berlin)

Desmond Smith (Director of Companies)

Laetitia van Dyk (Stellenbosch University Business School)

André van der Walt (SA Research Chair in Property Law, Stellenbosch University)

Committees

For the development of the STIAS research programme, the Director is assisted internally by a Research Advisory Committee and by an international panel of experts, including former fellows of STIAS.

Members of the STIAS Research Advisory Board

The STIAS Research Advisory Board meets biannually. During 2011 the Board met on 23 May and 28 November.

Peter Vale, Chair (Political Science, University of Johannesburg)

Paul Cilliers (Centre for Studies in Complexity, Stellenbosch University) deceased, 31 July 2011

Morné du Plessis (CEO, World Wildlife Fund (WWF-SA))

Hendrik Geyer (Director of STIAS)

Jan-Hendrik Hofmeyr (Centre for Studies in Complexity, Stellenbosch University)

Bernard Lategan (STIAS founding Director)

Mzamo Mangaliso (Isenberg School of Management, University of Massachusetts; former President, NRF)

Charles Ngweni (Law Faculty, University of the Free State)

Servaas van der Berg (SA Research Chair in the Economics of Social Policy, Stellenbosch University)

André van der Walt (SA Research Chair in Property Law, Stellenbosch University)

Charles van Onselen (Unit for Advanced Studies, University of Pretoria)

Louise Viljoen (Department of Afrikaans and Dutch, Stellenbosch University)

Members of the STIAS Fellowship and Research Programme Committee

The STIAS Fellowship and Research Programme Committee meets weekly except during recess and holiday periods when it meets less frequently.

Hendrik Geyer, Chair (Director of STIAS)

Paul Cilliers (Centre for Studies in Complexity, Stellenbosch University) deceased, 31 July 2011

Jan-Hendrik Hofmeyr (Centre for Studies in Complexity, Stellenbosch University)

Bernard Lategan (STIAS founding Director)

Louise Viljoen (Department of Afrikaans and Dutch, Stellenbosch University)

STIAS Funding Committee

The STIAS Funding Committee, held a number of informal discussions during 2011.

Desmond Smith, Chair (Director of Companies)

Dan Brändström (former Director, Bank of Sweden Tercentenary Foundation)

Christof Heyns (Dean of the Law Faculty, University of Pretoria and United Nations special rapporteur on extrajudicial, summary or arbitrary executions)

Bernard Lategan (STIAS founding Director)

Raenette Taljaard (Department of Political Studies, University of Cape Town, and former Member of Parliament)

STIAS Society of Fellows

A STIAS Society of Fellows was established in 2010.

Peter Weingart, former director of the Zentrum für interdisziplinäre Forschung (ZiF), Bielefeld, serves as its President. The Society is kept informed about STIAS matters and it also serves as a source for STIAS proposals and for reviewing proposals under consideration.

From left: Members of the STIAS Fellowship and Research Programme Committee: Jan-Hendrik Hofmeyr, Hendrik Geyer, Louise Viljoen, Bernard Lategan



FINANCIAL REPORT: Stellenbosch Institute for Advanced Study (STIAS)

Financial statement

for the year ended 31 December 2011

	Notes	31 December 2011 R	31 December 2010 R
Income	1	5 914 111,76	4 591 847,96
<i>Donations</i>			
Daimler Chrysler Fund		323 025,00	461 770,00
Donald Gordon Foundation		750 000,00	750 000,00
EG Gimon		5 327,69	–
Flora Family Foundation		10 655,37	–
Heemstede Stichting		50 000,00	92 371,89
Naspers Ltd		120 000,00	–
Riksbankens Jubileumsfond		648 529,27	580 151,52
Trellis Charitable Trust		–	2 000 000,00
Marianne and Marcus Wallenberg Foundation		2 955 898,26	–
Interest received		250 506,38	370 799,71
Foreign exchange profit		3 641,64	1 512,54
Rent income	2	67 810,92	61 646,28
University of British Columbia	3	38 096,30	–
Sales	4	682 640,93	261 962,72
Sundry income		7 980,00	11 633,30
Expenses		5 564 607,31	7 082 200,79
Advertisements		11 307,40	–
Books		39 132,92	988,70
Consultation fees		77 286,95	119 570,38
Consumable materials		36 242,94	56 704,22
Entertainment		15 686,30	49 808,69
Flowers, wreaths, gifts		912,25	864,71
Foreign exchange loss		6 891,13	1 162,06
General office costs and computer materials		2 161,47	17 558,67
Insurance, licences and Third Party		275,00	350,00
Internal transfer of funds		–	2 000 000,00
Internet expenses		24 773,20	24 164,55
Small capital works		31 700,00	14 965,50
Stellenbosch University levy		13 666,35	8 666,37
Maintenance of apparatus and equipment		8 787,92	92 404,64
Photographic expenditure		320,00	2 975,00
Postage		21 095,18	7 259,03
Printing and stationery		83 591,01	71 445,42
Remuneration	1	2 561 777,44	2 731 444,88
Services		32 144,89	9 255,51
Smaller furniture and equipment		16 503,24	16 512,45
Telephone and cell phone costs		76 675,04	129 618,09
Travel and subsistence	2	2 487 211,16	1 667 587,36
Asset purchases		16 465,52	58 894,56
Net income over expenditure		349 504,45	-2 490 352,83
Funds available at 31 December 2011		7 451 195,68	3 724 692,22

Notes to the financial statement of STIAS

for the year ended 31 December 2011

These financial statements are official documents of Stellenbosch University which provides financial administration services to STIAS.

Income

- In addition to the income listed in the financial statement, STIAS received a grant of R3 904 480 from the Department of Science and Technology (managed by the National Research Foundation) for the STIAS Fellowship Programme. Expenditure of this grant is reported separately to the NRF.
- Rent income for the property 69 Victoria Street, Stellenbosch.
- Funds received from the University of British Columbia for the Second Peter Wall Colloquium Abroad at STIAS *'Many Voices One Song' – Health-Promoting Schools* in November 2011.
- Sales include all income derived from sales made to Stellenbosch University entities. They include income derived from rent for offices, venues and buildings, and reimbursement of air tickets and accommodation.

Expenses

- Remuneration includes salaries of STIAS programme staff as well as residency stipends of STIAS fellows.
- Travel and subsistence cover the airfare and travel expenses of STIAS fellows to and from Stellenbosch and their subsistence costs while engaged in the fellowship programme.



Ms F Majiet

Director of Financial Services, Stellenbosch University



FACILITIES

STIAS is situated on a part of the historic Mostertsdrift, one of the first wine farms in the Stellenbosch area, dating back to 1691.

Stellenbosch University bought the property in 1996 and made it available to STIAS in 2001. The old Cape Victorian manor house, wine cellar and outbuildings are situated on 2,6 ha of parkland. The manor house was restored and rebuilt in 2002 to serve as the STIAS headquarters. The library of the manor house is used by researchers and academics for small seminars and workshops. In 2003 the outside of the wine cellar was restored, but the inside was redesigned and refitted to be used as a modern research facility. SACEMA, the South African Centre for Epidemiological Modelling and Analysis, a Centre of Excellence supported by the Department of Science and Technology, is the present occupant of the cellar.

With the opening of the Wallenberg Research Centre in 2007, STIAS acquired one of the most modern facilities specially designed for advanced research. The centre houses up to 20 researchers at a time in spacious and well-equipped surroundings, with adequate seminar facilities and state-of-the-art equipment. It also provides a home to the National Institute for Theoretical Physics (NITheP) in its south wing.



DIRECTOR AND STAFF

Hendrik Geyer was appointed as Director of STIAS in April 2008. He is professor in theoretical physics and former Director of the Institute for Theoretical Physics at Stellenbosch University. He is internationally recognised for his work on quantum mechanics and the quantum mechanical many-body problem. As a long-standing patron of the Chris Engelbrecht Summer School for Theoretical Physics he has succeeded in attracting many international leaders in this field to South Africa. He was the main driving force behind the establishment of the National Institute for Theoretical Physics which is based at Mostertsdraif. He has broad interdisciplinary interests and has been involved in the popularisation of science for more than a decade.

During 2011 Hendrik Geyer was assisted by Maria Mouton (secretary and personal assistant) and by Gudrun Schirge (programme manager) (the latter from September 2011). Support for the building and terrain was provided

through the services of Maggie Pietersen (coordinator for building and site maintenance), Leonard Katsekore (factotum) and Yanga Nkathazo (gardener). Nel-Mari Loock provided IT and general support for conferences and workshops as well as support to fellows. Goldie van Heerden (owner patron of Catering Unlimited) was responsible for catering and events coordination at the Wallenberg Research Centre, and lunches for fellows.

In addition to the assistance of administrative and logistic staff listed above the Director also receives part-time academic support from Jan-Hendrik Hofmeyr, Bernard Lategan and Louise Viljoen as members of the STIAS Fellowship and Research Programme Committee.

Back, from left: Bernard Lategan, Goldie van Heerden, Yanga Nkathazo, Gudrun Schirge, Maria Mouton

Front, from left: Johann Groenewald (appointed 2012), Nel-Mari Loock, Hendrik Geyer, Maggie Pietersen, Leonard Katsekore



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STELLENBOSCH INSTITUTE FOR ADVANCED STUDY

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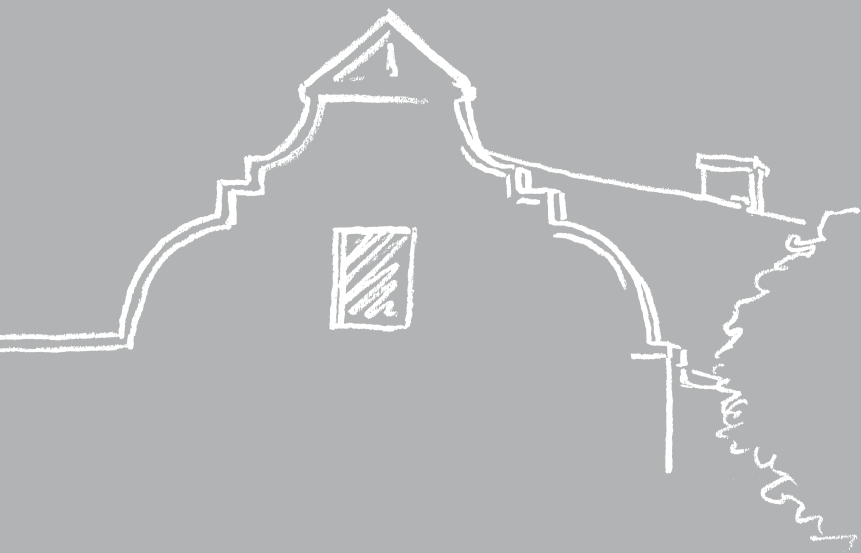
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