

COLLOQUIUM ON ENERGY FOR THE GAUTENG MEGACITY REGION: RETROSPECTIVE AND PROSPECTIVE

Friday 5th April 2019 | 09:00 – 17:00

Goethe Institute, 119 Jan Smuts Avenue, Parkwood 2193 Johannesburg

EnerKey#- five years after! – An Integrated Energy and Climate Concept for the City Region of Gauteng - Status, prospects and impacts of an integrated energy supply and climate protection concept in Gauteng - lessons learnt and possible way ahead.

The colloquium will take the form of a series of presentations, retrospective and prospective, on the state of energy in the Gauteng City Region and South Africa. Speakers have been invited from persons or institutions that were involved in the EnerKey project. Specifically, voice will be given to individuals whose careers were advanced through German-South African collaborations, and who may thereby act as role models for engagement of a new generation of students to participate in partnership activities.

The one-day colloquium at the Goethe Institute, Johannesburg has four objectives:

- Celebrate decades long collaboration in the fields of energy and the environment between South Africa and Germany, specifically by reflecting on the bi-lateral EnerKey# Project (204-2013) between key partners IER, University of Stuttgart and the University of Johannesburg.
- Discuss the status and prospects for renewable energy, energy efficiency and implications for climate protection in Gauteng Megacity Region and South Africa, considering opportunities for continuing collaboration between Germany and South Africa
- Acknowledge the key role played by the Goethe Institute in fostering cultural, educational and economic ties between the two countries
- Provide a platform to facilitate collaborations between South Africa and Germany, specifically to raise awareness of joint educational opportunities through funding mechanisms of the two governments and independent foundations.

Energy as a Key Element of an Integrated Climate Protection
Concept for the City Region of Gauteng

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Energy Partnership
Energiepartnerschaft
South Africa - Deutschland



Federal Ministry
of Education
and Research



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Participation

It is anticipated that between fifty and seventy persons will attend. Invitees will be drawn from persons and institutions in academia, government, NGOs and diplomatic services who were directly or indirectly involved in the EnerKey project, and more broadly in promoting South African German collaboration. Invitations will be sent to South African alumni of German scholarships and fellowships who either studied in Germany, or elsewhere.

- Pre-registration is required for catering purposes.
- Registration is free.
- Click on the '**Book your place**' button to register online. Alternatively, a registration form is included at the end of this document.

Provisional Programme

OPENING SESSION AND KEY NOTE ADDRESSES

Facilitator: Prof Harold Annegarn, former Secretary, South African German Alumni Association, EnerKey Co-principle Investigator, School of Geo and Spatial Sciences North-West University

- **Dr Lisette Andreae**
Counsellor, Head of Education, Science, Research and Technology, Embassy of the Federal Republic of Germany (10 minutes)
Welcoming remarks and opening of EnerKey Colloquium
- **Prof Harold Annegarn**
EnerKey Co-principle Investigator, North-West University (10 minutes)
Introduction to colloquium and remarks on luck and sustainability in South African German Science Partnerships.
- **Dr Siyavuya Bulani**
Senior Liaison Officer, Overseas Collaborations, Academy of Science of South Africa (ASSAf) (20 minutes)
Key note address: The role of Science Diplomacy, with special reference to the German-South African science cooperation.
- **Dr Ludger Eltrop**
Head of Department Systems Analysis and Renewable Energy, IER, University of Stuttgart (30 minutes)
Key note address: Renewable energy technologies - progress and current achievements for a low carbon city development cooperation.

SESSION 2: THE ENERKEY SUSTAINABLE MEGACITIES PROJECT

Energy as a Key Element of an Integrated Climate Protection Concept for the City Region of Gauteng, South Africa)

Facilitator: Prof Harold Annegarn, North-West University

- **Dr Ntombifuti Ntuli**
Industry Energy Competence Area, CSIR Energy Centre (20 minutes)
Tentative topic: Experiences of South African students participating in EnerKey and aspects of German-South African science partnerships
- **Ryan Roberts**
Energy Advisor, seconded to South African Local Government Association (SALGA), South African German Energy Programme (SAGEN), GIZ, Pretoria (20 minutes)
GIZ's work with and for municipalities under the South African German Energy Programme (SAGEN) and the South African-German Energy Partnership.



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- **Alex Bhiman**
City of Johannesburg (20 minutes)
Tentative topic: Transforming the City of Johannesburg transport energy profile with biogas.
- **Douglas Mothusi Guy**
CEO, Peer Africa. (20 minutes)
Tentative topic: iEEECO Housing for the bottom of the pyramid - Retrospective and Prospective.
- Discussion (20 minutes)

SESSION 3: ENERGY PROSPECTIVE FOR GAUTENG AND SOUTH AFRICA:

Facilitator: Dr Khulu Mbatha, Former Chair, South African German Alumni Association

- **Dr Ulrich Fahl**
Head of Department Energy Economics and System Analysis IER, University of Stuttgart (20 minutes)
What energy system models can tell us about the potentials and limits of a low carbon economy?
- **Rogers Musiyarira** (or alternate)
Energy Office, Department of Co-operative Governance and Traditional Affairs, Gauteng Government –or alternate (20 minutes)
Tentative topic: The Gauteng State of Energy Report – evolution of Gauteng's energy planning from 2010 to 2018 and beyond
- **Timon Wehnert**
Head, Berlin Office and Project Co-ordinator, Future Energy and Mobility Structures, Wuppertal Institute for Climate, Environment and Energy, Berlin (20 minutes)
Is the phase-out of coal possible - lessons learnt from the German experience.
- **Joe Baleka**
CEO, TEPRASM PBO, Alexandra, Johannesburg (20 minutes)
Energy poverty, insecurity and hazards
- **Audrey Dobbins**
Scientist, Energy Economics and System Analysis, IER, University of Stuttgart (20 minutes)
Policies and measures to tackle energy poverty.
- **Dr David Kimemia**
Researcher, Violence and Injury Prevention Research Unit (VIRPU), Medical Research Council (20 minutes)
Energy poverty, consequences and solutions
- **Johannes Rupp**
Scientist, Sustainable Energy and Climate Protection, Institute for Ecological Economy Research (IÖW), Berlin (20 minutes)
Energy supply and society - social implications of the energy transition.
- **Deborah Ramalope**
Chief Directorate - Climate Change Mitigation, Department of Environment Affairs (20 minutes)
Climate Change: Implications for the Energy Sector of South Africa.
- Discussion (20 minutes)



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SESSION 4: OPPORTUNITIES FOR CONTINUING GERMAN - SOUTH AFRICAN PARTNERSHIPS

- Representatives from German organisations: DAAD, GIZ, SAGEN, Goethe Institute
- Representatives from South African organisations: ASSAf, DST, NRF, SANEDI
- Representative from Southern African-German Chamber of Commerce and Industry
- *Proposed topic: Energy business partnership opportunities to enhance energy-water security.*
- CLOSURE AND REFRESHMENTS

Sponsors

This event is sponsored and supported by the following organisations:

- South African German Alumni Association (SAGAA), a voluntary association formed under the aegis of the Goethe Institute, Johannesburg (2003 -fi 2010).
- Secretariat of the South African-German Energy Partnership, operated by GIZ
- The Goethe Institute, Johannesburg
- The Federal Ministry of Education and Research, Germany
- IER, The University of Stuttgart
- The Academy of Sciences of South Africa (ASSAf)
- Eskom EPPEI Specialisation Centre for Emissions Control, School of Geo and Spatial Sciences, North-West University (Potchefstroom Campus).

Organisers

- **Prof Harold Annegarn**
Secretary (retired), South African German Alumni Association,
School of Geo and Spatial Sciences, North-West University, Potchefstroom Campus
Mobile: +27 83 628 4210
E-mail: hannegarn@gmail.com
- **Dr Khulu Mbatha**
Chair (retired), South African German Alumni Association;
Former Personal Advisor to the President; Former South African Ambassador; author and political commentator.
E-mail: khulu@worldonline.co.za
- **Ms Ntombifuthi Ntuli**
EnerKey alumnus
Research Group Leader, Energy Industry, CSIR Energy Centre, Pretoria
E-mail: PNtuli@csir.co.za



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Registration

Should you prefer to register manually, kindly complete this form and return to Harold Annegarn: hannegarn@gmail.com

First Name: _____

Last Name (Surname): _____

Contact Number(s): _____

E-mail Address: _____

Employment Sector: Government Industry Academia NGO

Employer or University of Registration: _____

I will be attending the Colloquium on Energy for the Gauteng Megacity Region: Retrospective and Prospective.

Full day Morning only Afternoon only

Lunch Yes No Dietary requirements Yes No Post colloquium refreshments Yes No

Dietary requirements: Halaal Kosher Banting Vegetarian Vegan



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