Head of Mission

Rolf Bossert
Program Manager
Dutch Research Council (SIA)

Background summary (bio-info)
Innovation, business, sustainability are elements of my discipline. Originally, I was trained as an Industrial Design Engineer (TU Delft, 1989) and later on active in the field of innovation management. I have worked as an consultant and manager at Syntens, Chamber of Commerce, Berenschot and Ordina. At NOVEM, I worked as a program advisor for the Ecology Economics Technology program. At present I am working as program manager for the Creative Industry and Circular Economy. In addition, I am chairman of the TU Delft External Education Advisory Board, Faculty of Industrial Design. As I member of the jury of the King Willem I award for the sustainability we support sustainable innovations.

Expertise
- Funding agency knowledge with research programs
- Cooperation of SME innovation activities within research projects
- Developing the research platforms for Circular Economics, Creative Industry and Biobased Economy within a national and international context
- Coordination and implementation of SME network activities and cooperation

Experience and expectations in Brazil
The mission is to build international research networks in the field of Biobased economy. Together with FAPEMIG we have developed a call to work together. In addition, it is important that the NL researchers come in contact with BR researchers and companies, so that collaborations lead to qualitative good project applications in the call

Professors

Prof. Karin Struijs
HAN University of Applied Sciences

Background summary (bio-info)
My name is Karin Struijs and I am working as one of professors at the HAN BioCentre. HAN BioCentre is the Centre of Expertise in Biotechnology and Analysis and has Biodiscovery as central theme. Biodiscovery is about the discovery, analysis, production and application of biomolecules (ranging from proteins to secondary metabolites) and fits within the Biobased Economy. Within the research projects of the HAN BioCentre I am covering the analytical chemistry and I am the project leader of the project "Biorefinery, on the way to zero-waste". My main expertise's are on analytical chemistry, biochemistry and separation technology. I have a degree in food chemistry (biochemistry) and I have been working as a post-doc on identification of secondary (plant) metabolites in foods by LC-MS. Besides my research activities, I am working as a lecturer in analytical chemistry at the Institute of Applied Sciences of the HAN forming the bridge between research and education.

Expertise
The expertise area of the HAN BioCentre is Biodiscovery. Biodiscovery about the discovery, analysis, production and application of biomolecules (from proteins, cell wall components, to natural products/secondary plant metabolites) within the biobased economy. We think that two of our research lines might be of interest for the international cooperation.

Our project entitled "Biorefinery, on the way to zero-waste" is about the development of biorefinery concepts for the separation of biomass in it individual components. In the end, all components need to find an existing or novel application resulting in a process without any waste. Also good to mention is that we have a project about the production of oil by oleaginous yeasts. The microbial material remaining after oil extraction in used as biomass for biorefinery. So collaborations on biorefinery of biomass from microbial origin are interesting.

One group of compounds resulting from biorefinery are the secondary plant compounds (also called natural products being compounds as polyphenols, vitamins, bioactive peptides). These compounds are of interest because of their specific (health beneficial) properties, for example, antimicrobial compounds. So we would like to collaborate with groups working on plant extracts with certain interesting properties.

Prof. Euridice Leyequien Abarca
VHL University of Applied Sciences

Background summary (bio-info)
Professor Management of Forested Landscapes at Van Hall Larenstein University of Applied Sciences (VHL), Velp, The Netherlands. Longstanding experience in applied research and managing professional at international arenas (e.g., Mexico, Zimbabwe, Ethiopia).

2016-present: Professor Management of Forested Landscapes at VHL, The Netherlands. Initiate, conduct and coordination of applied science projects in the field of sustainable forested landscapes

in urban and rural deltas and their delivery systems in the Netherlands and foreign countries.

2008-2015: Senior Researcher. Head of the group Global Change in Neotropical Ecosystems, Centro de Investigación Científica de Yucatán, México. Initiate, conduct and coordination of applied science projects in the field of agroecological landscapes, secondary tropical forests, human-driven ecosystems, and biodiversity conservation.

2006-2008: Post-doctoral scholar, El Colegio de la Frontera Sur, Mexico.

2002-2006: PhD Production Ecology & Resource Conservation. Wageningen University, The Netherlands.

1998-2000: MSc. Environmental System Analysis and Monitoring, ITC (currently Twente University), The Netherlands

Expertise

- Agroecosystems
- Integrated Watershed Management
- Value chains
- Food security / rural livelihoods
- Science-policy-practice interface

International project management

Experience and expectations in Brazil

I participate in a project proposal "Circular Dairy Economy through Private Sector Investment in Brazil" (KIEM VANG Dutch call) together with Prof. Robert Baars and Prof. Rik Eweg at VHL. I participate in the component of agro-silvopastoral dairy farming. I am joining this mission representing my aforementioned colleagues. Our expectations are to find and conduct a matchmaking with Brazilian dairy commercial and academic partners in relation with the KIEM VANG (SIA) project and eventually to develop a RAAK proposal (SIA).

Personally, I am also interested in developing projects in Brazil in the topics of sustainable forested landscapes. I had previous contact with Embrapa Tropical Semiarid.

Prof. Gino van Strydonck
Zuyd University of Applied Sciences

Background summary (bio-info)

- Chemistry University of Nijmegen (MsD)
- Ph D University of Nijmegen: design, synthesis and characterization of model systems for Iron Sulphur Proteins
- Post-doc positions at Johns Hopkins University Baltimore and Catholic University of Leuven
- University of Amsterdam (homogeneous catalysis)
- Zuyd University of Applied Sciences/Chemelot Innovation and Learning labs

Synthetic chemistry, homogeneous catalysis, supramoleculair chemistry, polymer chemistry, polymeric materials, nanotechnology, microreactor technology

Expertise
The research centre of material sciences of Zuyd University of Applied Sciences focusses on the synthesis and engineering of sustainable polymeric materials with special attention to microflow (synthesis and production), nanotechnology (functionality) and 3D printing (shaping). Projects are performed with and for industrial partners (SME's and Multinational) in the Chemelot Innovation and Learning Labs. More information about Chemelot Innovation and Learning Labs:

http://chillabs.com/en/

Experience and expectations in Brazil
We develop sustainable polymeric materials, coatings and ingredients for health and energy applications. We are always open to exchange knowledge in this field. Furthermore we like to collaborate with partner having expertise in other parts of the valu chain.

Prof. Luewton Agostinho
NHL University of Applied Sciences

Background summary (bio-info)
- Universidade Federal do Ceará (Fortaleza, Brazil)
- Minor degree Physiscs
- Bachelor Degree Civil Engineering
- Masters Sanitation engineering
- Delft University of Technology (Delft, The Netherlands)
- PhD, Applied Physics, Water Technology
- Wetsus, European Centre of Excelence in water Technology
- Post-doc Electrohydrodynamic Atomization

Expertise
- Physically driven water treatment processes
- Electrohydrodynamic atomization
- Electrochemical systems
- Sand filtration
- Thermal desalination

Experience and expectations in Brazil
I have a large network and experience with academic, public and private sector in Brazil. I worked more than 14 years with research and development before I left to the Netherlands. From my current positions (professor Water Technology, NHL University of Applied Sciences) I have developed different partnerships with different universities, companies and public sectors. Among others, main expectations are the establishment of a long term self-sustained scientific cooperation

between the academic institutes specially focused on professors and students (graduate and post-graduate) exchange. Expansion and more (active) involvement of the Brazilian Water Technology private sector in the projects.

Staff

Dr. Douwe-Frits Broens
Centre of Expertise Biobased Economy

Background summary (bio-info)
Currently Douwe-Frits Broens is working as a portfolio manager (applied) research in de Centre of Expertise Biobased Economy, based in the southwest Netherlands. Before he held different positions as a researcher, mainly in Wageningen University and Research and TNO. He has worked on countless commercial research projects in marketing, logistics and biobased applications and policy. Furthermore he has eight years of experience as an entrepreneur in biofuels and logistics. Douwe-Frits holds a PhD degree in Econometrics.

Expertise
- Biofuels
- Bioenergy
- Logistics
- Supply Chain organization
- Transaction cost economics

Experience and expectations in Brazil
- Setting up mutually beneficial research projects
- Involving companies on Brazilian side, Dutch side or both
- Either bringing forward new business opportunities
- Or supporting existing business lines

Erik Lammers

Avans University of Applied Sciences
Living Lab Biobased Brazil

Background summary (bio-info)
He previously held internships in the pharmaceutical and cosmetics industry, working in L'Oréal's Marketing department and Abbott's Logistics department. Prior to this Erik worked for a Mexican cosmetics company in Mexico.

Erik joined the Brabant Development Agency (BOM) as an intern in January 2014. This agency is a joint venture between the Province of Noord-Brabant and the Dutch Ministry of Economic Affairs. At BOM, he was responsible for setting up the Living Lab Biobased Brazil in close cooperation with EP-Nuffic and the Centre of Expertise Biobased Economy (Avans/HZ).

Erik was appointed Project Manager at Avans University of Applied Sciences after he graduated. His portfolio currently includes 3 projects: Living Lab Biobased Brazil, Interreg Biobased Education (EU) Biobased Infrastructure for Knowledge (EU).

- Living Labs are an instrument to better position Dutch universities of applied sciences in the NESO target countries and regions (emerging markets). Living Lab Biobased Brazil connects companies and governments to higher education institutions through students, lecturers and researchers who apply their specialised expertise in mainly agricultural and chemical industry to real-life challenges. The Living Lab links with the political and economic priorities in both the Netherlands and the various countries by targeting a sector that is a strategic industry of both countries. Since 2015, 50 Dutch students went to Brazil and 10 Brazilian students went to the Netherlands. Moreover, the first applied research projects with partners from both countries are approved and funded. More information: www.biobasedbrazil.org.

- The BIK project, which has a total budget of 1.6 million euros, is funded by the European Commission (OPZuid). Its objective is to develop application centres in biobased areas and to positioning these both nationally and internationally. BIK cooperates closely on this with the triple helix of universities, government agencies and companies. The project also develops MOOCs and encourages business development and international branding.

- The European project 'Interreg Biobased Education' is a cooperation between 14 Flemish and Dutch partners to develop demand-driven education and training programs in college, higher and university level. They also invest in better training and research facilities for education and business purposes. The project is from November 1, 2016 to October 31, 2019 and was realized with financial support of European Commission (Interreg) and several co-financiers. Total budget is €2.949.974,41.

In addition to the projects Erik is studying a master (MSc) of Public Administration at Erasmus University Rotterdam. He holds an BSc degree in Business Administration.

Expertise
- Business Administration
- Public Administration
- New public government
- Project management
- Program management

Experience and expectations in Brazil
Coordinator Living Lab Biobased Brazil.