The Infrastructure Investment and Development (DII) conference is an international conference which provides a forum for discourse on the status quo regarding Africa’s massive shortfall in infrastructure development and investment that limits its productive capacity and global competitive advantage. Inaugurated in 2014 in Livingstone, Zambia, the conference has been jointly hosted by the University of Johannesburg, the University of Zambia, Copperbelt University, National Council for Construction of Zambia, the Construction Industry Development Board of South Africa, and the Chartered Institute of Building of United Kingdom the Africa Region, and has recently been supported by the Network of Energy Excellence for Development (NEED), a project funded by the European Union (EU) and implemented by the African, Caribbean and Pacific Group of States (ACP). Themed “ACHIEVING SOLUTIONS FOR RENEWABLE ENERGY AND SUSTAINABLE DEVELOPMENT”, the 2016 conference will focus on renewable energy, general infrastructure development and investment in Africa, addressing a broad range of topics around infrastructure investment, development and sustainability. The conference is a great platform for international delegates including Built Environment professionals, researchers, academics and post-graduate students who are passionate about eliciting solutions to the challenges faced in infrastructure provision and sustainability. The conference further offers platform for brainstorming and probing into strategies to realise Africa’s vision in securing the future and attaining full potentials in infrastructure development and investment. Confirmed keynote speakers include:

Prof. Dr.-Ing. Wilfried ZÖRNER

Prof. Dr.-Ing. Wilfried ZÖRNER is Professor for Product Development and Design (since 1998), currently heads the Institute of new Energy Systems (InES) and is member of the research council at Technische Hochschule Ingolstadt, Germany. He lectures at the same institution presenting Renewable Energies, Solar Energy Engineering, Product Design, Design Elements, Pneumatics and Cost Management. He was previously Head of Research at the Research Institute for Renewable Energies, Neuburg, Germany. He has conducted various renewable energy research projects including ‘Optimisation of biogas production with regard to plant design and electricity grid interaction’, ‘System analysis and development of optimal system design of thermosyphon solar water heaters’, ‘Application of solar-thermal systems for process heat in industrial use’ and ‘Feasibility analyses on alternative design solutions and polymeric materials for solar-thermal collectors considering production process automation’. Prof ZÖRNER holds a PhD (Dr.-Ing.) in Solar Energy Systems and Dipl.-Ing. in Mechanical Engineering, both from Technical University of Munich, Germany. He is a member of Task 49 (Solar Heat Integration in Industrial Processes) and Task 39 (Polymeric Materials for Solar Thermal Applications) within the Solar Heating and Cooling Programme of the International Energy Agency, Member of the advisory committee of the German Solar Thermal Technology Platform (DSTTP), Member of the scientific committee of Eurosun 2010 conference (Graz, Austria) and consults with the industry in the field of sustainable energy.

In his speech, Prof ZÖRNER wants to answer the question ‘Why are Renewables so Successful in Germany?’ In doing so, he will show the status of renewables in Germany and then concentrate on electricity generation aspects. He will explain what happened in Germany to boost renewable electricity generation and put a focus on energy legislation. Prof ZÖRNER hopes to provide advice (at high level) on the approach developing nations could adopt.
Prof. Dr.-Ing. ZÖRNER will address delegates with a topic: *A Review of renewable energy legislative framework in Europe.* He will focus on how energy mix has been adopted and adapted in the overall Germany energy legislative framework. Prof. Dr.-Ing. ZÖRNER will be providing advice (at high level) on the approach developing nations should adopt. His address will emphasize the importance of energy mix in the current Load shedding environment and sustainability of the same. Prof. Dr.-Ing. ZÖRNER will include in his speech, what human capital is required, legal framework, key policies expected and players and their calibre to attract on board.

**Dr Wilfred MATIPA**

Dr Wilfred M. Matipa is a Total Cost Management specialist at Liverpool John Moores University, in the United Kingdom. He holds a PhD in Cost Engineering, MSc in Construction Project Management and BSc in Building backed by extensive and comprehensive experience in both academic and construction industries. Dr Matipa is currently working as senior lecturer and programme leader for all construction & project management programmes at Liverpool John Moores University and is a practicing consultant in Quantity Surveying / cost engineering and project management. Dr Matipa will stimulate debate with his critical thinking approach on *infrastructure delivery and the issue of miscommunication between professionals and stakeholders* in Africa. His discussion will endeavour to provoke honesty and introspection of all practitioners in the larger construction sector.

**Eng. Geoffrey MUSONDA**

Eng. Geoffrey Musonda has extensive practical experience in project management of power development and policy formulation. Eng. Musonda has worked with the private sector and in international organisations such as the United Nations Industrial Development Organization (UNIDO). He is currently the Chief Executive Officer (CEO) for the Rural Electrification Authority (REA) and is a former Assistant Director at the Ministry of Mines, Energy and Water Development (Department of Energy). Eng Musonda holds a Master’s Degree in Maintenance Engineering from Augsburg University of Applied Sciences, Germany and a Bachelor’s Degree in Mechanical Engineering from the University of Zambia.

Eng. Musonda’s will speak on the “*Status of energy supply in Zambia, perspectives/way forward, integration of renewables, legislative framework and regulations to increase renewable energy in the national energy mix*.”

**Eng. Christopher CHISENSE**

Eng. Christopher Chisense holds a Master degree in Environmental Engineering from University of Nottingham, in United Kingdom, and Bachelors of Engineering in Mining Engineering from University of Zambia. He is a registered Engineer with EngRB, Professional Member of Engineering Institute of Zambia and a Professional Impact Assessment Member. He is currently a Director -Water Resources & Environmental Management, at the Zambezi River Authority. Eng. Chisense will address delegates on “*The importance of water resource management and environmental protection in the development of economic infrastructure*”. Development of small and large dams is key for sustainable water resources management for economic and social development in a world where population increase and the development agenda are leading to increased demand for water and energy and treating available limited water resources and environmental protection as well. Countries are increasingly planning to use water infrastructure to systematically and sustainably harness the available water resources to meet the demands of
society without causing the limited resource neither to run out nor to cause threats to existing ecosystems and the environment. The International Commission on Large Dams (ICOLD) during its 24th Congress in Kyoto, Japan on 5th June 2012 made a World Declaration on Water Storage which stated that “Humanity is facing a more severe water situation than it has ever faced in the past” and calls for “Joint efforts to develop water storage infrastructure in a sustainable way.” If society is to harness water resources sustainably and with environmental protection in mind, this declaration points to key strategy that is implementable for sustainable water resources management especially in the wake of climate change.

Dr. Ludger ELTROP

Dr Ludger Eltrop is the Head of Department in System Analysis and Renewable Energies at the Institute for Energy Economics and Rational use of Energy - University of Stuttgart, Germany. He lectures in renewable energy technologies, bioenergy and RE systems. Dr Eltrop has conducted research on acid rain impact on sugar maple, renewable energy and integration into energy systems, research and development projects in biomass and solar energy and systems integration of renewable energy technologies international in Asia, Africa and South America. He has been Research Assistant inFungal Microbiology and Research Assistant in Plant Physiology at University of Toronto. Dr Ludger Eltrop holds a PhD in agricultural and environmental sciences, from Universität Hohenheim, German, a post-diploma research on nutrient cycles in mycorrhizal fungi and a Diploma in Biology, allgemein, Rheinische Friedrich-Wilhelms-Universität Bonn.

Dr Ludger Eltrop will cover “Mobility and use of alternative fuels and biogenic gases from biowaste and landfill” and will report from some experiences in Germany on penetration and high shares of renewable energy in the energy system, solar and wind energy. Dr Eltrop’s presentation will address the systems integration aspect”.

Dr. Lubinda HAABAZOKA

Dr. Lubinda Haabazoka is a Senior Lecturer in Economics, Banking and Finance in the School of Business. He is currently Head of the Accounting and Finance Department. He holds a Doctor of Philosophy degree in economics with a focus on Banking, Master of Science degree in Finance and Credit with a specialization in Banking from Rostov State Economics University (Russia). Dr Haabazoka has worked at the Copperbelt University since 2010 and also serves as northern region Economics Association Zambia Chairperson. As Senior Lecturer at the Copperbelt University, Dr. Haabazoka has conducted several research projects, among which are a study on Capital Market developments in Zambia, the National Economic Advisory Council commissioned study on youth employment creation in Zambia (with other researchers) and the National Economic Advisory Council study on Railway Industry Developments in Zambia. In the last four years, he has conducted research on employment creation, Effects of Fuel Price Subsidy Removal in Zambia, Role of Banking Sector in Economic Development and Diversifying the Copperbelt’s economy. Dr Haabazoka is also author of four academic books and more than twelve academic research papers. He has presented a number of academic papers at international conferences in Europe, Asia and Africa.

Dr Haabazoka will endeavour to answer the questions: Is Zambia and Africa ready for one sided DFI? Or should Zambia and Africa push for a more balanced /equitable sharing of investment? Does Africa have choice in the matter?
Dr. Simon TEMBO

Dr. Simon Tembo has over 20 years of experience in the ICT /Telecommunications sector with expertise on equipment Conformance and Interoperability (C&I) as a practitioner, academic and researcher. His expertise in strategic planning and operating for the ICT/Telecom operators; developing policy and regulation; and network planning and development has enabled him to develop curriculum for the Master and Bachelor of Engineering degree programmes in ICT/Telecom at the University of Zambia. He has also developed a diploma programme curriculum in Legal and Industrial Metrology. Dr. Tembo has published widely in both Journal and conference publications on human capacity development. Dr Tembo is a former CEO/Managing Director of Zambia Telecommunications Company Limited (ZAMTEL), Assistant Dean Postgraduate in the School of Engineering at the University of Zambia, and he is currently serving as the Head of Department for Electrical and Electronic Engineering Department, School of Engineering at the University of Zambia. Dr. Tembo sits on the Energy Regulation Board Grid Code Technical Committee, where he serves as a Vice Chairman. Dr Tembo holds Dr. Eng. Degree in Electrical, Electronic and Computer Systems Engineering from Akita University, JAPAN, a Master of Engineering. Degree in Information and Network Science from University of Electro-Communications, JAPAN, a Bachelor of Engineering Degree in Electrical and Electronics Engineering from the University of Zambia, ZAMBIA and is a Registered Practicing Engineer with Engineers Registration Board, Zambia. 

Dr Simon Tembo will address the delegates on New Strategic Direction to Generate Electricity in Zambia - the Smart Grid Power Generation in the 21st Century. The 2015/2016 drought which the country experienced has revealed the risks, uncertainties and consequences involved in dependence on the hydropower generation. This has led to electricity load shedding throughout the country thereby affecting every sector of the country’s social-economy. The impact of load shedding has been increasingly severe and diverse on all spheres of the country’s economy. There is an urgent need for Zambia to switch over from conventional hydropower generation to create a diverse electricity generation (called source mix) by promoting the use of other energy technologies that are sustainable and can meet the present and projected country’s electricity demand. His presentation will share the experience and methods other countries have adopted to create an optimal electricity supply-demand structure to serve the nation.

Eng. Charles MUSHOTA

Eng. Charles Mushota is the Executive Director of Zambia’s National Council for Construction. He is a Civil Engineer by profession and holds an MSc degree in Infrastructure Planning, a BSc degree in Civil Engineering and a Postgraduate certificate in International Construction Management. He has served the built environment in many capacities including being the Director and Chief Officer at the Road Development Agency, Deputy Director (Standards) at the Zambia National Tender Board and an Executive Director at Estal Pride Limited.

Other previous engagements include being contracted by the Uganda National Road Authority (UNRA) to carry out an evaluation of priority road tenders in 2011, a Lecturer at University of Zambia, a Consultant to the Technical Education, Vocational and Enterpreneurship Training Authority (TEVETA) and also an imprest Accounting Officer for the European Development Fund. Eng. Mushota serves on many committees such as the Zambia Certified Accountant’s Tender Committee, Food Reserve Agency Tender Committee, National Water and Sanitation Council Tender Committee, a Deputy Task Manager for the Public Expenditure Management and Financial Accountability Programme (PEMFA) at the Ministry of Finance and National Planning, a Commissioner at the Energy Regulation Board Commission of Inquiry and he is also a Member of the National Pensions Scheme Authority.
Dr. Julius Kaoma

Dr Julius Kaoma holds a PhD in Metallurgical Engineering and is seasoned Metallurgical Engineer, Scientist and Industrialist. He is presently the Executive Technical Director of Universal Mining and Chemical Industries Ltd.-Kafue Steel Plant (UMCIL), a subsidiary of Trade King Ltd Group of Companies. He is the pioneer of the ever integrated iron and steel plant in Zambia to include mining and beneficiation of iron ore, coal-based tunnel kiln direct reduction, electric arc furnace steel making and rolling mill. He schooled at both the University of Zambia in the School of Mines, and Golden, Colorado, United States of America where he obtained a Masters degree in Metallurgy and PhD in Meta Engineering. He worked for 25 years with the National Institute for Scientific and Industrial Research (NISIR) before setting up the iron and steel plant at Kafue Zambia. Dr Kaoma is also a consultant in energy (coal, biogas, gasification), mineral economics and mineral resources development (industrial and metallic minerals), plant design, manufacturing and environment (environment impact assessment and resettlement action plan). He has more than fifty publications in peer-reviewed conference proceedings and journals.

Dr Kaoma will enlighten on the manufacturing of high quality rebars. His presentation will comprise the consumers’ requirements with respect to properties of the high quality rebars produced by UMCIL under the trade name UMZ, the different production processes and benefits (vis-a-vis their properties) that accrue when used.

VENUE - CHRISMAR HOTELS, LIVINGSTONE

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For more information, visit www.diiconference.org
Or email Mrs Chioma Okoro or Ms Balimu Mwiya
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info@diiconference.org

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