Raw Materials Seminar, Trinity College Dublin

Trinity College Dublin is a core partner in the EU Knowledge and Innovation Community (KIC) on Raw Materials, the largest (>115 member spread over 20+ EU countries) and strongest consortium in the raw materials sector worldwide. EIT RawMaterials, initiated by the EIT (European Institute of Innovation and Technology) and funded by the European Commission, is the largest and strongest consortium in the raw materials sector worldwide. Its mission is to boost competitiveness, growth and attractiveness of the European raw materials sector via radical innovation and guided entrepreneurship. EIT RawMaterials unites more than 100 partners – academic and research institutions as well as businesses – from more than 20 EU countries. They collaborate on finding solutions to secure the supplies and improve the raw materials sector all along its value chain – from extraction to processing, from recycling to reuse. EIT RawMaterials aims to significantly enhance innovation in the raw materials sector by sharing of knowledge, information and expertise. EIT RawMaterials aims to generate a significant impact on European competitiveness and employment by driving and fostering innovation and empowering students, entrepreneurs and education partners driving toward the circular economy.

The Trinity International Development Initiative is hosting a seminar to critically examine this process and the role of raw materials in development in Africa. The format of this seminar is 90 minutes, with 4 speakers, each speaker taking approximately ten minutes each to talk initially, followed by a panel discussion on this topic. This seminar will be held in collaboration with the Raw Materials Knowledge and Innovation Community.

**Date:** Thursday 18th January 2018  
**Time:** 16:30 – 18:30  
**Venue:** Haughton Lecture Theatre, Museum Building, Trinity College

**Speakers:**  
1. Dr. Damaris Fernandez, TCD Raw Materials Knowledge and Innovation Community  
2. David Horgan, Director of Botswana Diamonds, plc  
3. Prof. Christopher Adam, Department of International Development, Oxford University  
4. Prof. Padraig Carmody, Department of Geography, Trinity College Dublin

**Chair:**  
- Dr. Susan Murphy, Assistant Professor in Development Practice, Trinity College Dublin

**About the Trinity International Development Initiative**

The Trinity International Development Initiative is a college-wide initiative to coordinate and promote TCD's expanded engagement with research and teaching on subjects related to international development. By helping to forge links between different teaching and research activities, it aims to ensure that the College’s overall approach to international development is distinctive, coherent and integrated. Over 100 TCD staff members identify themselves as having a research interest in this area, and there are more than 70 research projects on international development. A wide range of existing research, teaching, and service partnerships has been identified and TIDI is already playing its part in facilitating and supporting such collaborations, most crucially with institutions in the developing world but also national partnerships with Irish institutions working on international development issues. Public events, consultancy, support to policy-makers and service provision are also part of Trinity’s engagement with this field. TIDI was established, by researchers at Trinity College Dublin (TCD), in 2007, to maximise the university’s contribution to understanding and addressing the major global development challenges of our time through research, teaching and outreach activities.
About the Speakers

Prof. Christopher Adam, Professor in International Development, University of Oxford

Christopher Adam is Professor of Development Economics and Head of the Department of International Development at the University of Oxford, UK. He is a Visiting Scholar at the International Monetary Fund and Lead Academic for Tanzania for the Oxford-LSE International Growth Centre (the IGC).

From 2003-05 he served as external Macroeconomic Adviser to the Policy Division at the UK Department for International Development and in 2011-12 he served as Special Advisor to the House of Lords Economic Affairs Committee Inquiry into Aid Effectiveness. He is currently a co-editor of the Oxford Review of Economic Policy and an associate editor of the Journal of Development Economics and serves as a member of the editorial board of Oxford Economic Papers, Oxford Development Studies and the Tanzania Economic Review.

His academic research focuses on the macroeconomics of low-income countries, particularly those of sub-Saharan Africa. In recent years he has worked on issues of fiscal, monetary and exchange rate policy; public investment, debt, growth and structural change in low-income countries; and the economics and political economy of aid.

Prof. Padraig Carmody, Associate Professor in Geography, Trinity College Dublin

Pádraig Carmody is an Associate Professor in Geography at Trinity College Dublin, where he did his undergraduate and masters work, and is a visiting Associate Professor at the University of Johannesburg. His Ph.D. is from the University of Minnesota in the US, where after graduation he also taught at the University of Vermont. At TCD he directs the Masters in Development Practice. His research centres on the political economy of globalisation in Africa. He has published a number of books, including The New Scramble for Africa (2016, 2nd edition) and the Rise of the BRICS in Africa (2013) and with James Murphy, Africa’s Information Revolution (2015). His current research examines the impacts of large-scale land acquisitions in Africa. He sits on the boards of Political Geography, African Geographical Review and Politics and Development in Africa (Zed books) and is editor-in-chief of Geoforum.

David Horgan, Director, Botswana Diamonds, plc

David Horgan has worked in the natural resource industry since 1990, and is currently director of 3 London AIM stockmarket listed companies in oil, gas and diamond exploration. He holds an MBA with Distinction from the Harvard Business School, where his research was sponsored by the Bank of Ireland. His first degree is a First Class Honours in Law from Cambridge University, where he was Mooting Team Captain, and held various University, College & Faculty scholarships. He has appeared as guest lecturer at leading international universities, including Bauman Moscow State Technical University, on commodities’ prices, energy and natural resources industries. He is also Head of Postgraduate Studies & Business Faculty at American College Dublin, a constituent college of Irish American University. He is Head Lecturer in M.B.A. International Business courses on Energy Economics and Policy. He has worked in 5 Continents, speaks several languages and has published extensively in trade and general press on business issues.
Dr. Damaris Fernandez (Female, 42 y.o, mother of 2 daughters) has a background in Extractive Metallurgy Engineering, followed by postgraduate studies in Materials Science both conducted in Chile. She obtained her Doctor of Philosophy degree in Experimental Physics from Trinity College Dublin in 2011, working on nano-sized applications for sustainable, energy-efficient metal processing using coupled magnetic and electric fields. This experience connected both the mega and micro-scales in metal processing, as well as traditional and new technology alternatives.

Between 2010 and 2012 she focused also on the entrepreneurial aspects enabling the translation of scientific research into industry-relevant innovations, supported by the Irish national agencies Science Foundation Ireland and Enterprise Ireland. Between 2012 and 2014, she successfully led the Irish raw materials initiative aimed to engage Irish institutions in the new initiatives supported by the European Commission via the European Innovation Partnership in Raw Materials. As a result, a number of Irish institutions got involved in short to long-term RM activities with European partners.

Damaris has henceforth focused in advancing both technological and non-technological innovations for the raw materials sector, developing collaborative projects that break new grounds in societal-solution-oriented education and research. She is currently implementing Knowledge Triangle Integration activities in the area of raw materials for European and Latin-American projects. On new technologies, she currently coordinates 4 research projects related to nanosized materials and applications for the mining industry. On international collaboration with Latin-America and Africa, she leads research on sustainability & transversal areas related to the raw materials industry for 4 projects receiving EIP recognition and EIT funding. On the non-technological innovations, she has focused on forming cross-disciplinary teams to enable transitions between societal and technical arenas, with a series of workshops that address bottom-up approaches to policy-design and project actions that secure increasing sustainable development opportunities associated with the use of natural resources. On innovative education, she currently coordinates one PhD programme that has been accredited for innovativeness with an EIT quality label plus EIT funding.

Damaris has been recently appointed Member of the Executive Committee of the European Technology Platform for Sustainable Mineral Resources. She has produced 7 publications, 1 patent application, 2 international conferences, and raised funds for nearly 2 million euros in the last six years, and hopes to continue integrating local and global aspects to the projects she is involved with.

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