



Making Futures Work

International Conference &
Launch of the Wales Futures Network
09.00 AM – 5.15 PM Wednesday 7 February, 2007
Macdonald Holland House Hotel, Newport Road, Cardiff

- **Speakers & Biographies**
- **Abstracts of Conference Papers**

Rhoi Dyfodolion Ar Waith

Cynhadledd Ryngwladol a
Lansiad Rhwydwaith Dyfodolion Cymru
09.00 yb – 5.15 yh Dydd Mercher 7 Chwefror, 2007
Gwesty'r Macdonald Holland House Hotel, Heol Casnewydd,
Caerdydd

- **Siaradwyr a Bywgraffiadau**
- **Crynodebau Papurau'r Gynhadledd**



Speakers & Biographies Siaradwyr a Bywgraffiadau

JOSEPHINE GREEN

Director of Trends & Strategy, Philips Design
Cyfarwyddwraig Tueddiadau a Strategaeth, Philips Design

Josephine studied History and Politics at Warwick University in England and has worked both in International Sales and Marketing and in Futures and Social Research for Advanced Strategy. Since 1997 she has been Senior Director of Trends and Strategy at Philips Design where she currently promotes new thinking and new knowledge in the fields of Foresight and Society, Cultures and People Research, and its application to strategic thinking, sustainable innovation and new value creation. She is a member of European and Women's International Network, a member of the Advisory Board of the UK Design Council, Honorary Professor at The Glasgow School of Art and Design and a consultant for a number of European Futures programmes and advisory boards.

Astudiodd Josephine Hanes a Gwleidyddiaeth ym Mhrifysgol Warwick yn Lloegr ac mae wedi gweithio ym Marchnata a Gwerthiant Ryngwladol ac yn Nyfodolion ac Ymchwil Cymdeithasol ar gyfer Strategaeth Ddatblygedig. Ers 1997 mae hi wedi bod yn Uwch-Gyfarwyddwraig Tueddiadau a Strategaeth yn Philips Design lle y mae hi ar hyn o bryd yn hybu meddwl a gwybodaeth newydd ym meysydd *Foresight* a Chymdeithas, Ymchwil Diwylliannau a Phobl, a'i gymhwysiad i feddwl strategol, arloesedd gynladwy a chread gwerth newydd. Mae hi'n aelod Rhwydwaith Rhyngwladol Ewrop a Menywod, aelod Fwrdd Ymgynghorol Cyngor Dylunio Prydain, Athro Mygedol yn Ysgol Gelf a Dylunio Glasgow ac yn ymgynghorydd ar nifer o fyrddau ymgynghorol a rhaglenni Dyfodolion Ewropeaidd.

JUHA KASKINEN

**Director, Finland Futures Research Centre
Cyfarwyddwr, Canolfan Ymchwil Dyfodolion Ffindir**

Juha is an expert on Foresight and futures research in regional business and innovation policy. Since the late 1990s he has dealt with regional development questions from the point of view of infrastructure, indicators, business and innovation.

He started his academic career at the University of Turku Research Unit for Sociology of Education and its Department of Sociology before joining the FFRC in 1999. In 2002 -2003 he worked as a futures studies researcher at the Association of Finnish Local and Regional Authorities, returning to FFRC as a coordinator of international affairs in 2004 and has been its director since May 2005. His research and work topics have varied over years from environmental impact assessment and sustainable development in road planning to environmental policy indicators and Foresight in regional business and innovation policy. Recently he has been concentrating on the role of Foresight exercises in regional development in two EU funded projects SPIDER (2004 - 2006) and FUTURREG (- 2007).

Mae Juha yn arbenigwr ar ymchwil *Foresight* a dyfodolion yng nghyd-destun busnes rhanbarthol a pholisi arloesedd. Ers yr 1990au mae wedi ymdrin â chwestiynnau datblygiad rhanbarthol o safbwynt isadeiledd, dangosyddion, busnes ac arloesedd. Cychwynnodd ei yrfa academaidd yn Uned Ymchwil Cymdeithaseg Addysg Prifysgol Turku a'i Hadran Gymdeithaseg cyn ymuno a Chanolfan Dyfodolion Ffindir (FFRC) yn 1999. Yn ystod 2002 -2003 fe weithiodd fel ymchwilydd astudiaethau dyfodolion Cymdeithas Awdurdodau Lleol a Rhanbarthol Ffindir, gan ddychwelyd i FFRC fel cydlynnydd materion rhyngwladol 2004 ac fel Cyfarwyddwr ers mis Mai 2005. Mae ei bynciau gwaith ac ymchwil wedi amrywio dros y blynyddoedd o asesu trawiad amgylcheddol a datblygiad cynladwy cynllunio ffyrdd i ddangosyddion polisi amgylcheddol a *Foresight* mewn busnes rhanbarthol a pholisi arloesedd. Yn ddiweddar canolbwyntia ar rôl ymarferiadau *Foresight* mewn datblygiad rhanbarthol drwy ddau brosiect a ariannwyd gan yr UE, sef SPIDER (2004 - 2006) a FUTURREG (- 2007).

RIEL MILLER

XperidoX: Futures Consulting

Riel Miller is a specialist in long-run strategic thinking with over two decades of experience in how to assess and direct the potential for socio-economic transformation in the private and public sectors. Born in Canada, he holds a Ph.D. in Economics from the New School for Social Research in New York. From the mid 1980s until 1994 he worked for the Ontario Government and at the beginning of 1995 began full-time work at the OECD as a Principal Administrator in the International Futures Programme, leaving in 2005 to establish an independent consultancy, XperidoX: Futures Consulting (Paris). Recent and forthcoming publications address a range of issues, from futures methodology and the design of scenario processes for strategic decision making to personalisation of output (goods and services) and reform of the public sector. He has consulted for public and private sector organisations in more than twenty-five countries and is currently Visiting Senior Fellow at the Danish Technological Institute, an Associate at Demos and a member of the Faculty of the Masters of Public Affairs at Sciences-Po in Paris.

Mae Riel Miller yn arbenigwr ar feddwl strategol tymor hir gyda dros ddau ddegawd o brofiad ar sut i asesu a chyfarwyddo'r botensial ar gyfer trawsnewidiad economaidd-gymdeithasol yn sectorau preifat a gyhoeddus. Yn enedigol o Ganada, mae ganddo ddoethuriaeth o Ysgol Newydd Ymchwil Cymdeithasol Efrog Newydd. O'r 1980au canol hyd at 1994 bu'n gweithio i lywodraeth Ontario ac ar gychwyn 1995 ddechreuodd gweitho'n llawn-amser i'r OECD fel Prif Weinyddydd Rhaglen Rhyngwladol Dyfodolion. Ymadawodd yr OECD yn 2005 i sefydlu ymgynghoriaeth annibynnol sef XperidoX: Futures Consulting ym Mharis. Mae ei gyhoeddiadau diweddar a'r rhai sydd ar ddod yn mynd i'r afael ag ystod o faterion, gan gynnwys methodoleg dyfodolion a dylunio prosesau *scenarios* ar gyfer penderfynu strategol, personaleiddio allbwn (nwyddau a gwasanaethau) a diwygio'r sector gyhoeddus. Ar ben hyn mae wedi ymgynghori i sefydliadau cyhoeddus a phreifat mewn dros 25 o wledydd ac ar hyn y bryd mae'n Uwch Gymrawd Ymweliadol yn yr Athrofa Dechnolegol Ddanaidd, cydymaith Demos ac yn aelod gyfadran Meistri Materion Cyhoeddus, Sciences-Po ym Mharis.

MARTIN RHISIART

**Deputy Director, Observatory of Innovation, Cardiff Business School, Cardiff University
Dirprwy-Gyfarwyddwr, Yr Arsyllfa Arloesedd, Ysgol Fusnes Caerdydd, Prifysgol
Caerdydd**

Martin has been at the Observatory of Innovation since 1999. He previously worked at the European Bank for Reconstruction and Development and in educational institutions in Italy. At Cardiff Business School, he has conducted research in innovation, Foresight/futures and sustainability. A graduate of the London School of Economics (History) and Cardiff University (Public Policy), he is a Principal Investigator in the FUTURREG project and is currently applying futures techniques in the areas of corporate planning and Welsh language, culture and economic development. Currently his other main research activity is the application of public policy theories in science and technology policy (genetic technologies).

Mae Martin wedi gweithio i'r Arsyllfa Arloesedd ers 1999. Cyn hynny bu'n gweithio yn y Banc Ewropeaidd dros Adluniad a Datblygu ac mewn sefydliadau addysgiadol yn yr Eidal. Yn Ysgol Fusnes Caerdydd mae wedi cynnal ymchwil ar arloesedd, *Foresight*/dyfodolion ac arloesedd. Yn raddedig o Ysgol Economaidd Llundain mewn Hanes a Phrifysgol Caerdydd (Polisi Gyhoeddus), ef yw Prif Ymchwilydd prosiect FUTURREG. Ar hyn o bryd ymhlith ei brif ddiddordebau rhestra cymhwysiad technegau dyfodolion ym meysydd cynllunio corfforaethol a'r iaith Gymraeg a diwylliant a datblygiad economaidd. Ei brif ddiddordeb ymchwil arall yw cymhwysiad damcaniaethau polisi cyhoeddus ym mholisi gwyddoniaeth a thechnoleg (technolegau genetig).

JAMIE SAUNDERS

**Co-ordinator Governance & Sustainability, Bradford City Council
Cydllynydd Trefn Lywodraethol a Chynladwyedd, Cyngor Dinas Bradford**

Jamie has, through his work as Sustainability Co-ordinator for Bradford City Council, been involved in sustainability policy, practice and education since 1992. The holder of an MA in Foresight and Futures Studies (Leeds Metropolitan University), he has been extensively involved in the work on community planning and local governance as well as in producing the Local Government Association's *Futures Toolkit* for local government (<http://www.lga.gov.uk>) (2000). He is also member of the UK Futurist Network and an adviser to the Permaculture Association (a sustainable design education and research charity) as well as being active in supporting the national Sustainability Practitioners Network (SPN) for people who work in championing and delivering sustainable development.

Drwy rinwedd ei waith fel Cydllynydd Cynladwyedd Cyngor Dinas Bradford mae Jamie wedi ymddiddori â pholisi, ymarferiad ac addysg cynladwyedd ers 1992. Yn ddeiliad MA Astudiaethau *Foresight* a Dyfodolion (Prifysgol Fetropolitan Leeds), mae wedi cefnogi'n frwd gwaith ar gynllunio cymunedol a'r drefn lywodraethol leol yn ogystal â chynhyrchu Blwch Offer Dyfodolion y Gymdeithas Awdurdodau Lleol (2000) ar gyfer llywodraeth leol (gweler <http://www.lga.gov.uk>). Mae Jamie hefyd yn aelod o Rwydwaith Dyfodolegwyr y DU ac yn ymgynghorydd i'r Gymdeithas Permaculture (elusen addysg ac ymchwil dylunio cynladwy) yn ogystal â bod yn gefnogwr gweithgar o Rwydwaith Ymarferwyr Cynladwyedd (SDPN) ar gyfer bobl sydd yn gweithio i hyrwyddo a chyflenwi datblygiad cynladwy.

MEIRION THOMAS (Conference Chair/ Cadeirydd y Gynhadledd)

**Director, Observatory of Innovation, Cardiff Business School, Cardiff University
Cyfarwyddwr, Arsyllfa Arloesedd, Ysgol Fusnes Caerdydd, Caerdydd**

Meirion has 20 years' experience in regional development, where his expertise covers a range of innovation, investment promotion, financing and business development interests. From 1981 to 1994 he worked in economic development with the Welsh Development Agency, one of the leading regional development agencies in the UK. In 1994, he established the Observatory of Innovation at Cardiff Business School with a mission to "observe, analyse and advise on innovation and business development policy and practice in Wales, the UK, Europe and beyond". In 1997 Meirion established the UK office of CM International, a European

consultancy company with headquarters in Paris. The team at the UK office specialises in the area of public policy and innovation development.

Mae Meirion yn meddu ar 20 blynedd o brofiad mewn datblygiad rhanbarthol, lle mae ei arbenigedd yn ymestyn dros ystod o arloesedd, hybu buddsoddiad, cyllido a buddiannau datblygu busnes. O 1981 hyd 1994 gweithiodd ym maes datblygiad economaidd gydag Awdurdod Datblygu Cymru, un o brif asiantaethau datblygu rhanbarthau'r DU. Yn 1994 sefydlodd yr Arsyllfa Arloesedd yn Ysgol Fusnes Caerdydd gyda'r genhadaeth i "arsyllu, dadansoddi ac ymgynghori ar arloesedd a pholisi datblygu busnes yng Nghymru, y DU, Ewrop a thu hwnt". Yn 1997 sefydlodd Meirion swyddfa Brydeinig CM International, cwmni ymgynghorol Ewropeaidd â'i bencadlys ym Mharis. Mae'r tîm yn y swyddfa hon yn arbenigo mewn asesu polisi cyhoeddus a datblygu arloesedd.

DR JENNIFER CASSINGENA HARPER

Director of Policy, Malta Council for Science and Technology

Cyfarwyddwraig Polisi, Cyngor Malta ar gyfer Gwybodaeth a Thechnoleg

Jennifer is a senior advisor at the Malta Council for Science and Technology (advisory body to Government on national STI Policy), with responsibility for the National RDIST Plan and national Foresight activity. She is currently Malta's delegate to CREST and a member of the 9 EU Joint Research Centre Board of Governors. She is also the rapporteur for the Impact Assessment Review Panel of EUREKA and was previously

the rapporteur of the EU DG Research High Level Group on Key Technologies (2005), a member of the EU High Level Group on Regional Foresight (2001-02), the Mobility HLG and the IPTS Enlargement Steering Committee (2001-3). Jennifer is a graduate of Keele University, the London School of Economics and the University of Malta, where she obtained a Ph.D. Her main research interests include the internationalisation of national STI Policy and the use of Foresight as a strategic policy-making and mutual learning tool.

Mae Jennifer yn uwch ymgynghorydd i Gyngor Gwybodaeth a Thechnoleg Malta (corff ymgynghorol i'r Llywodraeth ar bolisi cenedlaethol STI), gyda chyfrifoldeb ar gyfer y Cynllun Cenedlaethol RDIST a gweithgaredd *Foresight* cenedlaethol. Ar hyn o bryd hi yw cynrychiolydd Malta ar CREST ac yn o 9 aelod Bwrdd Rheolwyr Canolfan Cyd-Ymchwil yr UE. Mae Jennifer hefyd yn rapporteur ar gyfer Panel Adolygu Asesu Trawiad EUREKA ac yn gynt rapporteur Grŵp Lefel Ymchwil Uwch ar Dechnolegau Allweddol DG Ymchwil yr UE (2005), aelod o bwyllgor Lefel Uwch yr UE ar *Foresight* Rhanbarthol (2001-2), yr HLG ar gyfer Symudedd a Phwyllgor Llywio Ehangu'r IPTS (2001-3). Mae Jennifer yn raddedig o Brifysgol Keele, Ysgol Economeg Llundain a Phrifysgol Malta, lle derbyniodd ei doethuriaeth. Ymhlith ei phrif ddi-ddordebau ymchwil gellir rhestru rhyngwladoli polisi cenedlaethol STI Malta a defnydd *Foresight* fel offer creu-polisi strategol a dysg gilyddol.

PROFESSOR / YR ATHRO JIM POOLE

Policy Adviser, Cynnal Cymru

Ymgynghorydd Polisi, Cynnal Cymru

Jim has a wealth of experience in environmental science and sustainable development. For three decades he has promoted a multi-disciplinary approach to managing the environment and creating a sustainable future. Born in Cardiff, Jim graduated from Cambridge University with a degree in Zoology, followed by an MSc in Applied Hydrobiology. After a successful career with Welsh Water in 1989 he became the Corporate Planning Manager for the Welsh Region of the National Rivers Authority and was heavily involved in setting up Environment Agency Wales to which he transferred in 1996. In 2002, he was appointed as Visiting Professor in Engineering Design for Sustainable Development at Cardiff University and in 2004 was seconded from the Environment Agency to Cynnal Cymru, the Sustainable Development Forum for Wales, as Policy Adviser. His main role is to manage Cynnal Cymru's "Call to Action" programme, organising discussion between the general public and recognised experts to promote sustainable development in Wales.

Mae Jim yn meddu ar gyfoeth o brofiad ym meysydd gwyddoniaeth amgylcheddol a datblygiad cynaladwy. Dros 30 blynedd mae wedi hybu dulliau amlddisgyblaeth er rheoli'r amgylchedd a chreu dyfodol cynaladwy. Yn enedigol o Gaerdydd, graddiodd o Brifysgol Caergrawnt gyda gradd mewn Sŵoleg, ac wedyn enillodd MSc mewn Hydroleg Cymhwysol. Wedi gyrfa lwyddiannus gyda

Dwr Cymru yn 1989 daeth yn Rheolwr Cynllunio Corfforaethol i Ranbarth Cymreig Awdurdod Cenedlaethol yr Afonydd a bu'n amlwg iawn yn sefydlu Asiantaeth Amgylchedd Cymru i le y symudodd yn 1996. Yn 2002 fe'i apwyntiwyd yn Athro Ymweliadol mewn Dylunio Peirianeg ar gyfer Datblygu Cynladwy ym Mhrifysgol Caerdydd ac yn 2004 ymlynwyd ef o Asiantaeth yr Amgylchedd i Gynnal Cymru, Fforwm Datblygiad Cynladwy Cymru fel Ymgynghorydd Polisi. Ei brif rôl yw rheoli rhaglen "*I'r Gad*", trefnu trafodaeth gyda'r cyhoedd ac arbenigwyr cydnabyddedig er hybu datblygiad cynladwy yng Nghymru.

Abstracts of Conference Papers Crynodebau Papurau'r Gynhadledd

JOSEPHINE GREEN

Director of Trends & Strategy, Philips Design
Cyfarwyddwraig Tueddiadau a Strategaeth, Philips Design

“Democratizing the Future” / “Democrateiddio'r Dyfodol”

Abstract / Crynodeb:

“In the past the future was more elitist. It was primarily a top down concern and, from a company perspective, was driven through technology, economics and expertise. However, the meta-themes of sustainability, social innovation and mass creativity are transforming how we think about the future. My talk will explore the change from technology led to market led to socially led business and offer some thoughts around the democratisation of the future.”

JUHA KASKINEN

Director, Finland Futures Research Centre
Cyfarwyddwr, Canolfan Ymchwil Dyfodolion Ffindir

“Futures Finnish Style – Past, Present and the Future” / “Dyfodolion Ffordd y Ffindir – y Gorffennol, y Presennol a'r Dyfodol”

Abstract / Crynodeb:

“Finland was not a pioneer in establishing futures research and foresight some 50 years ago but during the last fifteen years it has been one of the most active countries in applying futures in various sectors and levels of society, government and administration. Finnish futures work started in 1970's. First, it was an activity of few private persons and scholars but soon gained support in governmental organisations. The Finnish Society for Futures studies was established in 1980 on the recommendation of the government's Central Board of Research Councils. Fourteen Finnish institutions of higher education were the founding members, and 14 additional institutions and over 800 individuals have since joined the society. According to the Society approximately 40 doctoral theses on futures have been submitted since 1980 in Finnish universities.

Finland Futures Research Centre started its work in 1992 as part of Turku School of Economics. It has grown from a small research group of three people to a research, development and education institute of 45 people - one indicator of the great interest in futures in Finland over the 15 years. The Finnish Parliament appointed a *Committee for the Future* on a temporary basis in the year 1993 for the purpose of evaluating and replying to the Government's decisions. This functioned on a temporary basis until the year 2000. In conjunction with a constitutional revision, the Parliament of Finland decided to grant the Committee for the Future a permanent status, starting from the beginning of March 2000. Several organisations practice futures nowadays – government ministries, Finnish Road Administration, The Association of Local and Regional Authorities, The Finnish National Fund for Research and Development (Sitra), Employment and Economic Development Centres, Regional Councils, municipalities as well as private consultants. Companies apply Foresight and futures research methods in strategic planning. It can be stated that Futures has penetrated to the Finnish society.

The future of futures seems quite promising because of the quite significant societal support it has nowadays. The rapid speed of change and several challenges our world is facing will underline the need of futures thinking even more.”

RIEL MILLER

XperidoX: Futures Consulting

“Towards a Learning Intensive Society: The Role of Futures Literacy” / “Tuag at Gymdeithas Ddysg Ddwys: Rôl Llythrennedd Dyfodolion”

Abstract / Crynodeb:

“Today decisions at every level of a society matter. Decisions are what determine the quality of life in our communities. Decisions are the tangible reflection of what people know. Decisions are how we initiate and respond to the freedom, ambiguity, diversity and responsibilities of the world. It is the challenge of permanent decision making that is at the core of the Learning Intensive Society and Futures Literacy that makes this challenge practical. essential capability To make the right decisions today Futures Literacy is essential. Just like reading, writing and arithmetic were the corner stones of factory era literacy, futures literacy is the key to the Learning Intensive Society.”

MARTIN RHISIART

*Deputy Director, Observatory of Innovation, Cardiff Business School, Cardiff University
Dirprwy-Gyfarwyddwr, Yr Arsyllfa Arloesedd, Ysgol Fusnes Caerdydd, Prifysgol Caerdydd*

“Developing Futures Literacy in Wales: the Wales Futures Network” / “Datblygu Llythrennedd Dyfodolion yng Nghymru: Rwydwaith Dyfodolion Cymru”

Abstract / Crynodeb:

The presentation will provide a rapid review of the futures field, including its origins, the rationale for a futures approach and the way it has been used by a variety of organisations to meet different objectives. Futures can be described as process in which organisations and individuals seek to make sense of a world of complexity and ambiguity. Within this context, the Wales Futures Network is a mechanism for exploring themes from a futures approach, exchanging knowledge - derived from various disciplines and viewpoints – and developing futures literacy in Wales.

Bydd y cyflwyniad yn cynnig adolygiad cyflym o faes dyfodolion, gan gynnwys ei darddiad, y rhesymeg dros ddefnyddio'r dull a'r modd fe'i defnyddir gan amrediad o sefydliadau i gwrdd ag anghenion gwahanol. Gellir disgrifio dyfodolion fel proses ddethol ar gyfer sefydliadau ac unigolion sydd am greu synnwyr o fyd cymhleth ac amwys. Yn y cyd-destun hwn, bwriedir Rhwydwaith Dyfodolion Cymru fel mecanwaith ar gyfer archwilio themâu o bersbectif dyfodolion, gan gyfnewid gwybodaeth - a ddeillir o ddisgyblaethau amrywiol -a datblygu llythrennedd dyfodolion yng Nghymru.

JAMIE SAUNDERS

*Co-ordinator Governance & Sustainability, Bradford City Council
Cydlynnydd Trefn Lywodraethol a Chynladwyedd, Cyngor Dinas Bradford*

“Local futures: ready or not? Wales and “The Long Now”” / “Dyfodolion lleol: yn barod neu beidio? Cymru a'r “Nawr Hir””

Abstract / Crynodeb:

“This short session will explore the landscapes and timescapes of Wales, its people and places as a setting for thinking and acting on local futures. Stewart Brand said that 'future considerations should dwarf the present' and this is the basis of a discussion on the practice, potential and prospects for local futures in a turbulent world. Taking a cue from Stewart Brand's "The Clock of the Long Now" and the pressures of the 'Big Here', this action learning session would seek to engage participants in addressing the Local 'Long Now' and its potential for the settlements,

organisations and people of Wales. Local people and places are all moving into the future and leaving legacies for future generations. They are also facing significant challenges and opportunities in these early decades of the 21st Century. Local Government has a civic duty to consider, plan for and act in the interests of future generations and for contributing to sustainable development through strategic 'community planning'. This community leadership, engaged with public agencies, businesses, voluntary and community organisations and citizens, is expected to be mindful of 10-15 year time horizons at the very least. Local Government is being expected to enable a widespread public engagement in the 'shared future' ahead. Localities can therefore be seen to be challenged to consider timescapes spanning decades and possibly centuries and to explore the possibilities, probabilities, preferences and political choices that face communities in the age of the 'risk society' (Beck, 2006). Such 'future-proofing' can be seen as at the very heart of the creation of sustainable lifestyles and settlements. Political, administrative, community and other decision making are supposed to act as if 'the future matters'. This session from a practitioner perspective seeks to provide information, experiences and questions for a productive and provocative session."

DR JENNIFER CASSINGENA HARPER

Director of Policy, Malta Council for Science and Technology

Cyfarwyddwraig Polisi, Cyngor Malta ar gyfer Gwybodaeth a Thechnoleg

“European and Maltese Futures and Foresight Experiences” / “Profiadau Dyfodolion a Foresight Ewropeaidd a Malteaidd”

Abstract / Crynodeb:

“There are a number of exciting trends in foresight reflected in the emergence of new rationales for foresight activity, including open and social innovation and knowledge failures and the drive towards system adaptation or disruption. This is necessitating and goes hand in hand with the development of hybrid approaches, allowing an innovative combination of qualitative and quantitative approaches, social and policy concerns and adaptive foresight. From ongoing projects and studies, key foresight themes and systemic rationales are identified, together with the drive towards multi-level activity and a set of more 'popular' tools. The key messages are that foresight is currently in a phase of transition into a more embedded policy-making activity and targeting increased societal dialogue and democratisation. Creativity and innovation are key ingredients in successful foresight activity and a focus on empowering the actors through mutual learning. The paper concludes with some thoughts on the evaluation and impacts of foresight activity as a critical area for further work and draws on insights from a range and mix of EU funded projects and studies that the author has been engaged in over the last four years. These include: eFORESEE, the ERANET Forsociety, FFRAF2025, EU Key Technologies, SCOPE 2015, EFMN, FUTURREG, FORLEARN and the Seville FTA Conferences.”

Professor/Yr Athro JIM POOLE

Policy Adviser, Cynnal Cymru

Ymgynghorydd Polisi, Cynnal Cymru

“A Sustainable Future for Wales” / “Dyfodol Cynladwy i Gymru”

Abstract / Crynodeb:

“Mankind currently faces unprecedented challenges – climate change, the depletion of natural resources and the growing gap between rich and poor. These long-term issues must be addressed in ways that are socially acceptable **today**. Jim will discuss what this means for Wales, and the sort of Sustainable Wales that might arise.”