

**Research Review 17/18**



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# Research Outputs

## Research Review: Research Outputs 2017/18

### Introduction

Glyndŵr University’s research is intended to contribute to economic, social and cultural development. Whether local or international, small scale or large, the emphasis is always on problem-solving and making a contribution to real needs.

This report gives an indication of the wide range of research and related activity undertaken by University staff.

These outputs of research include papers published in peer-reviewed journals, conference presentations, books, reports, performances and exhibitions.

This report also provides details of research student completions, and formal research grants and contracts active in 2017/18.

For more information about the research undertaken at Glyndŵr University please visit the [Our Research](http://www.glyndwr.ac.uk/en/Ourresearch/) page or call the **Research Services** office on 01978 293573.

You can view our online repository of research outputs at [Glyndŵr University Research Online](http://collections.crest.ac.uk/view/divisions/GlyndwrUniversity/)

GURO gives free access to the outputs of the research and scholarship of the academic and research staff of the University, where not otherwise prevented by copyright restrictions. The University positively encourages external organisations and individuals to make use of its research results and to cooperate in its research efforts.

*Stewart Milne*

*Head of Research Services*

### Books and Book Chapters

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Klarmann, S., Manesh, B., Hoenle, T. and Vagapov, Y. (2017), 'Analysis of Insulated-Metal-Substrates Structures in the Context of Heat Dissipation Enhancement', in *Proceedings of the 7th IEEE Int. Conference on Internet Technologies and Applications ITA-17*, 12-15 September 2017, Wrexham, UK. pp.161-164. doi: 10.1109/ITECHA.2017.8101929

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Kulik, E., Xuan Trung Tran, Anuchin. A. and Vagapov. Y. (2017), 'GPS-track data processing for the optimisation of the powertrain for hybrid electric vehicles', in *Proceedings of the 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University*, 12-13 October 2017, Riga, Latvia, pp.1-5. doi: 10.1109/RTUCON.2017.8124845

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### Exhibitions and Performances

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### Reports

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## Research Student Completions 2017/18

| **PhD/Professional Doctorate Student** | **Thesis title** |
| --- | --- |
| Carey, H | The Impact of 'Doing' for People with Motor Neurone Disease: A Case Study Approach |
| Carter, J | Close at hand but miles apart? Exploring the relationship between the Digital Universe and the Spiritual Health and Well-Being of Christian Youth |
| Fairs, L | An Analysis of Officiating Style within Rugby Union |
| Kreider, M | On Time, in Style: Nanosecond Accuracy in Network Control Systems |
| Monir, S | High Throughput Process for Atmospheric Pressure Inline Production of Thin Film Photovoltaics |
| Muir, F | A narrative enquiry into health visiting practice |
| Richards, P | Developing Decision-Making Skills in Elite Sport Teams |
| Ubrurhe, O | Energy Optimisation for Mac Protocol in Wireless Body Area Network. Energy Effectiveness in MAC protocol for Wireless Body Area Network |
| Evans, S | Living with Tuberculosis in North Wales in the 20th Century: Voices from the Sanatorium |
| Hardy, N | Doing time: A qualitative study exploring the time use of adults at-risk of  reoffending in England and Wales |
| O'Sullivan, A | 'Forging their Way': An exploration of the socialisation process undergone by  trainee teachers during their initial teacher education programme in Wales |

## Research Grants and Contracts active in 2017/18

| **Sponsor** | **Total**  **Value (£)** | **Project** | **Principal**  **Investigator** |
| --- | --- | --- | --- |
| ADDACTION (Big  Lottery) | 219,298 | Drink Wise, Age Well | Prof Iolo Madoc Jones |
| Barnardo’s | 56,661 | The ASPIRE project | Prof Mandy Robbins |
| BCUHB | 20,000 | Training and Development in Arts in Health | Dr Sue Liggett |
| Change Step (CAIS) | 7,500 | Change Step Evaluation | Dr Nikki Lloyd Jones |
| EPSRC | 74,640 | High Value Manufacturing Catapult Fellowship: Addressing the industrialisation challenges in rapid microwave and radio frequency processing of polymer matric composites | Prof Richard Day |
| EPSRC (University of Sheffield) | 50,000 | High Value Manufacturing Catapult Fellowship: Research into microwave processing of materials to deliver a scientific understanding and methods for large scale manufacture of composite materials | Prof Richard Day |
| NHS Scotland (via  Figure 8  Consultancy) | 33,000 | Evaluation of Minimum Pricing of alcohol in Scotland | Dr Wulf  Livingston |
| Argyll & Bute  Alcohol and Drug  Partnership (via  Figure 8  Consultancy) | 2,500 | Understanding the active ingredients of sustained recovery in rural and remote settings | Dr Wulf  Livingston |
| Welsh Government  (via Figure 8  Consultancy) | 12,000 | Review of Substance Misuse Strategy | Dr Wulf  Livingston |
| Welsh Government  (via Figure 8  Consultancy) | 1,500 | Analytical Support for the Public Health MUP for Alcohol (Wales) | Dr Wulf  Livingston |
| North Wales Area  Planning Board (via  Figure 8  Consultancy) | 7,500 | Open Access Tier 2 Substance Misuse Review | Dr Wulf  Livingston |
| Forces in Mind Trust | 210,859 | Leaving the Armed Forces and Living in Wales | Dr Nikki Lloyd Jones |
| Forces in Mind Trust | 21,681 | Leaving the Armed Forces and living in Wales- Dissemination | Dr Nikki Lloyd Jones |
| Mostyn Gallery LTD | 12,500 | Investigation and identification of Mostyn's existing digital content and the design of a methodology for construction of new platforms | Prof Alec Shepley |
| National Deaf  Children's Society | 2,480 | Evaluation of Gearing Up project | Hayley Douglas |
| NRN-LCEE (Sêr Cymru) | 7,700 | Proposal Writing Fellowship (Sally Burr) | Dr Ian Ratcliffe |
| USW / RCBC Wales | 54,555 | RCBC Fellowship | Helen Carey |
| Welsh Government | 69,799 | Evaluation of Homelessness Services provided to Adults leaving the Secure Estate | Prof Iolo Madoc Jones |
| Welsh Government | 20,516 | Review of the Impact of the Youth Work Strategy for Wales 2014-2018 | Jess Achilleos |
| Wrexham County Borough Council | 14,500 | Evaluation of Local Government Delivery of Covenant programme | Dr Nikki Lloyd Jones |