

## **UOIT-based papers published in refereed proceedings of ICONE-22, July 2014**

### **Akiyama Medal Award**

1. Marija Miletic, Wargha Peiman, Amjad Farah, Jeffrey Samuel and Alexey Dragunov, 2014. Study on Neutronics and Thermalhydraulics Characteristics of SuperCritical Water-cooled Reactor (SCWR), Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30040, 12 pages.

### **Best Paper Award**

2. Samuel, J., Lerchl, G., Harvel, G., and Pioro, I., 2014. Investigation of ATHLET System Code for Supercritical Water Applications, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30136, 12 pages.
3. Saltanov, Eu., Pioro, I., Mann, D., Gupta, S., Mokry, S. and Harvel, G., 2014. Study on Specifics of Forced-Convective Heat Transfer in Supercritical Carbon Dioxide, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30122, 12 pages.

### **Best Poster Award**

4. Sidawi, Kh., Vincze, A., Abdullah, R., Baldock, M., Peiman, W., and Pioro, I., 2014. Study on Thermalhydraulic Effects of Nuclear Steam Superheat for a Generic 1200-MW<sub>el</sub> Pressure-Channel Reactor, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30132, 9 pages.
5. Abdullah, R., Baldock, M., Vincze, A., Sidawi, Kh., and Pioro, I., 2014. Materials and Stress Analysis of Fuel-Channel of a Generic 1200-MW<sub>el</sub> Pressure-Channel Reactor with Nuclear Steam Reheat, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30134, 8 pages.
6. Baldock, M., Peiman, W., Vincze, A., Abdullah, R., Sidawi, Kh., and Pioro, I., 2014. Neutronics Studies of a Generic Pressure-Channel Reactor with Nuclear Steam Superheat, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30135, 9 pages.
7. Jouvin, J.C., Samuel, J., and Pioro, I., 2014. Analysis of Thermophysical Properties for Selected Supercritical Fluids, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30146, 10 pages.

### **Additional Papers Presented by Students**

8. Mokry, S. and Pioro, I., 2014. Improvement of Supercritical Water Heat-Transfer Correlations for Vertical Bare Tubes, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30137, 12 pages.
9. Dragunov, A., Saltanov, Eu., Pioro, I., Kirillov, P., and Duffey, R., 2014. Power Cycles of Generation III and III+ Nuclear Power Plants, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30151, 13 pages.
10. Gupta, S., Saltanov, Eu., and Pioro, I., 2014. Uses of Supercritical Fluids and their Characteristics within Deteriorated Heat Transfer Region, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30274, 12 pages.
11. Peiman, W., Pioro, I., and Gabriel, K., 2014. Thermal-Hydraulic and Neutronic Analysis of a Re-Entrant Fuel Channel Design for Pressure-Channel Supercritical Water-Cooled Reactors,

Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30614, 11 pages.

12. Maghsoudi, S., Peiman, W., Pioro, I., and Gabriel, K., 2014. Pressure Drop Analysis of a Re-Entrant Fuel Channel in a Pressure-Channel Type SuperCritical Water-Cooled Reactor, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30616, 9 pages.

#### **Additional Papers Presented by Dr. I. Pioro**

13. Agranat, V.M., Zhubrin, S.V., and Pioro, I., 2014. Multi-Group Two-Phase Flow Model of Drift Drop Plume, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30010, 10 pages.
14. Gershuni, A.N., Nishchik, A.P., Pis'mennyi, E.N., Razumovskiy, V.G., and Pioro, I.L., 2014. On Features of Thermal Design of Passive Evaporation-and-Condensation Systems of Reactor Thermal Shielding, Proceedings of the 22<sup>nd</sup> International Conference on Nuclear Engineering (ICONE-22), July 7-11, Prague, Czech Republic, Paper #30133, 7 pages.

#### **Additional Award**

1. Service Recognition Award from the ASME (American Society of Mechanical Engineers) Nuclear Engineering Division (NED) in testimony of the high regard of your associates and the deep appreciation of the Society for Dr. Pioro valued services in launching the Journal of Nuclear Engineering and Radiation Science.

#### **Exact List of Certificates and Appreciations**

1. Certificate of Appreciation to I. Pioro for his valuable contribution as a Track Chair at the 22<sup>nd</sup> International Conference On Nuclear Engineering, Prague, Czech Republic, July 7 – 11, 2014.
2. Certificate of Appreciation to B. Ikeda for his valuable contribution as a Track Chair at the 22<sup>nd</sup> International Conference On Nuclear Engineering, Prague, Czech Republic, July 7 – 11, 2014.
3. Certificate of Appreciation to I. Pioro for his valuable contribution as Chair and Panelist “National Future Energy Strategy, Nuclear Energy Strategic Plan, and Nuclear Power as basis for Future Energy Production in the World Panel Session” at the 22<sup>nd</sup> International Conference On Nuclear Engineering, Prague, Czech Republic, July 7 – 11, 2014.

*Certificates of Appreciation from the ICONE-22 Organizing Committee to:*

1. J. Samuel, G. Lerchl, G. Harvel and I. Pioro, Paper #30136 “Investigation of ATHLET System Code for Supercritical Water Applications”;
2. Eu. Saltanov, S. Gupta, D. Mann, S. Mokry, G. Harvel and I. Pioro, Paper #30122 “Study on Specifics of Forced-Convective Heat Transfer in Supercritical Carbon Dioxide”;

as Winners in the ICONE-22 Student Best Paper Competition at the 22<sup>nd</sup> International Conference On Nuclear Engineering, Prague, Czech Republic, July 7 – 11, 2014.

*Certificates of Appreciation from the ICONE-22 Organizing Committee to:*

1. J.C. Jouvin, J. Samuel and I. Pioro, Paper #30146 “Analysis of Thermophysical Properties for Selected Supercritical Fluids”;
2. S. Gupta, Eu. Saltanov and I. Pioro, Paper #30274 “Uses of Supercritical Fluids and their Characteristics within Deteriorated Heat Transfer Region”;
3. R. Abdullah, M. Baldock, A. Vincze, Kh. Sidawi and I. Pioro, Paper #30134 “Materials and Stress Analysis of Fuel-Channel of a Generic 1200-MW<sub>el</sub> Pressure-Channel Reactor with Nuclear Steam Reheat”;
4. Kh. Sidawi, A. Vincze, R. Abdullah, M. Baldock, W. Peiman and I. Pioro, Paper #30132 “Study on Thermalhydraulic Effects of Nuclear Steam Superheat for a Generic 1200-MW<sub>el</sub> Pressure-Channel Reactor”;
5. M. Baldock, R. Abdullah, Kh. Sidawi, A. Vincze, I. Pioro and W. Peiman, Paper #30135

“Neutronics Studies on a Generic Pressure-Channel Reactor With Nuclear Steam Superheat”;  
as Winners in the ICON-22 Student Best Poster Competition at the 22<sup>nd</sup> International Conference  
On Nuclear Engineering, Prague, Czech Republic, July 7 – 11, 2014.