

Wednesday 25 th July, 2018		Thursday 26 th July, 2018		Friday 27 th July, 2018	
Training workshop VENUE: Room RC538 , Royal College (RC) building, University of Strathclyde, 204 George Street, Glasgow, G1 1XW		VENUE: Conference Room 7 , Technology and innovation centre, University of Strathclyde, 99 George Street, Glasgow, G1 1RD		VENUE: Conference Room 7 , Technology and innovation centre (TIC), University of Strathclyde, 99 George Street, Glasgow, G1 1RD	
		08:00 - 9:10	Registration		
		09:10 – 09:20	Welcome Remarks	09:10 – 09:30	Ald: 1865
		09:20 – 09:50	Keynote Lecture	09:30 – 09:50	Ald: 1870
		09:50 – 10:10	Ald: 1750	09:50 – 10:10	Ald: 1869
10:00 – 11:30	Training (Session 1 (a) and (b))	10:10 – 10:30	Ald: 1862	10:10 – 10:30	Ald: 1867
		10:30– 11:00	Coffee Break	10:30– 11:00	Coffee Break
		11:00 – 11:20	Ald: 1799	11:00 – 11:30	Poster session (Ald: 1782, Ald: 1880, and Ald: 1881)
11:20 – 11:40	Ald: 1755				
11:30 – 11:45	Coffee Break	11:40 – 12:00	Ald: 1777	11:30 – 11:50	Ald: 1770
11:45 – 12:30	Training (Session 1 (c))	12:00 – 12:20	Ald: 1762	11:50 – 12:10	Ald: 1866
		12:20 – 12:30	Meet LaVision	12:10 – 12:30	Ald: 1871
12:30 – 13:30	Break	12:30 – 14:00	Lunch (+ Exhibition by LaVision)	12:30 – 14:00	Lunch (+ Poster viewing)
13:30 – 15:00	Training (Session 1 (d) and (e))	14:00 – 14:20	Ald: 1772	14:00 – 14:20	Ald: 1872
		14:20 – 14:40	Ald: 1778	14:20 – 14:40	Ald: 1873
		14:40 – 15:00	Ald: 1868	14:40 – 15:00	Ald: 1874
15:00 – 17:00	Training (Session 2) Room: RC434b	15:00 – 15:30	Coffee Break	15:00 – 15:30	Coffee Break
		15:30 – 15:50	Ald: 1760	15:30 – 15:50	Ald: 1751
		15:50 – 16:10	Ald: 1761	15:50 – 16:10	Ald: 1864
		16:10 – 16:30	Ald: 1798	16:10 – 16:30	Ald: 1783
		Closure 16:45		Closure 16:45	
		18:30 – 22:00	WELCOME DINNER (VENUE: Executive rooms A & B, Technology and innovation centre, University of Strathclyde, 99 George Street, Glasgow, G1 1RD		

Ald= Abstract ID

Sessions for Abstract IDs (colour code)

- Phosphor physics, synthesis, characterisation and calibration
- Instrumentation, measurement strategy, traceable standards
- Fluid temperature measurements
- Industrial and triboluminescence applications

SESSION	TITLE	Abstract ID
Keynote lecture	A History of Phosphor Thermometry S. W. Allison	1791
Phosphor physics, synthesis, characterisation and calibration	Intentional designing of sensitive luminescent thermometers through crystal field strength engineering <u>K. Elzbieciak</u> and L. Marciniak	1750
	Investigating the Temperature Sensitive Emission Properties of Eu:BAM : Potential for New Eu ²⁺ High-Temperature Phosphors Dustin Witkowski and David A. Rothamer	1862
	Aerogel and Polymeric Phosphor Composites for Remote Thermometry-Cryogenic to Elevated Temperatures <u>F. Sabri</u> and S. Allison	1799
	Manganese-based phosphors for bandshape and lifetime luminescent thermometers <u>L. Marciniak</u> and K. Trejgis	1755
	Effect of Oxygen on Phosphorescence for Different Lanthanide Ions Ln ³⁺ (Ln=Eu, Dy, Sm, Er) Doped Ytria-stabilized Zirconia Tao Cai, Yongzeng Li, Lixia Yang, Di Peng, Xiaofeng Zhao, Yingzheng Liu	1777
	Effect of the particle size on the temperature-dependent emission characteristics of YAG:Dy ³⁺ and YAG:Dy ³⁺ ,Er ³⁺ phosphors <u>E. Hertle</u>, L. Chepyga, M. Batentschuk, S. Will and L. Zigan	1762

	V ³⁺ , V ⁴⁺ and V ⁵⁺ as a temperature sensors in luminescent nanothermometers <u>K.Kniec</u>, and L. Marciniak	1751
	Gd _{0.8} Lu _{0.2} AlO ₃ :Dy ³⁺ and (Gd _{0.8} Lu _{0.2}) ₃ Al ₅ O ₁₂ :Dy ³⁺ as high-temperature thermographic phosphors L. M. Chepyga, <u>E. Hertle</u>, L. Zigan, Andres Osvet, Christoph J. Brabec, Miroslaw Batentschuk	1864
	Highly sensitive luminescence thermometry based on the combined lanthanide and transition metal ion emissions <u>M.D. Dramićanin</u>, M. Sekulić, V. Đorđević, and M. Medić	1783
Fluid temperature measurements	Numerical Analysis on the application of SLIPI to gas-phase phosphor thermometry <u>L. Fan</u> and S. Hochgreb	1760
	Stagnation point heat flux measurements of laminar methane/air flames impinging on cylindrical surface with thermographic phosphors <u>Peter Oketch</u>, Ulf Bergmann and Burak Atakan	1761
	Characterising dispersed phosphor particles for fluid thermometry C. Abram, B. Fond, M. Pougin and F. Beyrau	1798
	Phosphor thermometry for the validation of computational fluid dynamics simulations of heat transfer in compressible real-gas flows B. Fond, C-N. Xiao, C. Abram, C. T'Joen, B. Van Wachem, F. Beyrau	1870
	Multiple Scattering Reduction in Instantaneous Gas Phase Phosphor thermometry: Applications with Dispersed Seeding M. Stephan, <u>F. Zentgraf</u>, E. Berrocal, B. Albert, B. Böhm and A. Dreizler	1865

	Exploiting optical signals from single-phosphor particles for simultaneous point measurements of flow temperature and velocity <u>A.O. Ojo</u>, B. Fond, C. Abram, B. G. M. Van Wachem, A. L. Heyes, and F. Beyrau	1867
	A Path to High-Precision Aerosol Phosphor Thermometry in Adjustable Temperature Ranges from 300 K to > 1000 K Dustin Witkowski, David A. Rothamer	1869
Instrumentation, measurement strategy, and traceable standards	Phosphor thermometry in cryogenic applications <u>Dong Kim</u> and Kyung Chun Kim	1772
	Development of A Dual-Component Phosphor System for Simultaneous Pressure and Temperature Measurements Yongzeng Li, Tao Cai, Lixia Yang, Di Peng, Xiaofeng Zhao, Yingzheng Liu	1778
	Imaging phosphor thermometry from T = 20 °C to 450 °C using the time-domain intensity ratio technique <u>G. Sutton</u>, A. Greenen, B. Roebuck, G. Machin	1868
	A time-gated approach for improved ratio-based phosphor thermometry of fast heat transfer phenomena A. Mendieta, B. Fond, P. Dragomirov, F. Beyrau	1871
	Configurations for Temperature Sensing of Thermal Barrier Coatings <u>Q. Fouliard</u>, S. Jahan, L. Rossmann, P. Warren, R. Ghosh, and S. Raghavan	1872
	Effect of Flame Luminosity on Phosphor Thermometry Measurements Using the Decay Time Method <u>C. Binder</u>, F Abou Nada and Mattias Richter	1873

	Temperature profiling of cooled radial turbine wheel C. Pilgrim, Y. Zhang, C. Copeland, A. Redwood, S. Karagiannopoulos, D. Castillo, S. Araguás Rodríguez, and J. Feist	1874
Triboluminescence and industrial applications	Use of phosphors to detect debris impacts and proton irradiation in space W.A. Hollerman, R.S. Fontenot, and J. Miller	1770
	On the use of phosphor thermometry for temperature monitoring in manufacturing processes A.O. Ojo, <u>F. McCallum</u>, A. Andreu, and A. L. Heyes	1866

POSTER PRESENTATIONS

SESSION	TITLE	Abstract ID
POSTER	Luminescence thermometry with Eu ³⁺ doped TiO ₂ , ZrO ₂ and Nb ₂ O ₅ prepared by plasma electrolytic oxidation A. Ćirić, M. Sekulić, S. Stojadinović, M. D. Dramićanin, and <u>V. Đorđević</u>	1782
	Effects of Fluid and Seeding Properties relevant for Phosphor Thermometry in Liquid Flows <u>J. Bollmann</u>, E. Hertle, R. Pröbstle, S. Will, L. Zigan	1880
	Luminescent Thermal Memory Paints <u>D. Castillo</u>, S. Araguas, C. Pilgrim, S. Karagiannopoulos, A. Leibinger, J. Feist, S. Skinner, C. Cavallo, M. Genschmar, D. Peral	1881