Summary of publications 2015 – 2020:

S Dedyulin *et al.* 2020 **On the long-term stability of the triple-point-of-water cells** *Metrologia* in press https://doi.org/10.1088/1681-7575/abb52f

A Merlone *et al.* 2020 **Gas-controlled heat pipes in metrology: more than 30 years of technical and scientific progresses** *Measurement* **164** 108103 https://doi.org/10.1016/j.measurement.2020.108103

S Janz *et al.* 2020 **Photonic temperature and wavelength metrology by spectral pattern recognition** *Optics Express* **28** 17409 https://doi.org/10.1364/OE.394642

D R White and P M C Rourke 2020 **Standard platinum resistance thermometer interpolations in a revised temperature scale** *Metrologia* **57** 035003 https://doi.org/10.1088/1681-7575/ab6b3c

S Dedyulin *et al.* 2020 **Packaging and precision testing of fiber Bragg grating and silicon ring resonator based thermometers: current status and challenges** *Meas Sci Technol* **31** 074002 https://doi.org/10.1088/1361-6501/ab7611

P M C Rourke 2020 **Thermodynamic temperature of the triple point of xenon measured by refractive index gas thermometry** *Metrologia* **57** 024001 https://doi.org/10.1088/1681-7575/ab57f2

S Dedyulin *et al.* 2019 **Silicon photonic chips using remote interrogation for secondary and working standards in thermometry** *2019 Photonics North* Article number 8819562 https://doi.org/10.1109/PN.2019.8819562

P M C Rourke *et al.* 2019 **Refractive-index gas thermometry** *Metrologia* **56** 032001 https://doi.org/10.1088/1681-7575/ab0dbe

P P M Steur, P M C Rourke and D Giraudi 2019 **Comparison of xenon triple point realizations** *Metrologia* **56** 015008 https://doi.org/10.1088/1681-7575/aaee3a

D H Lowe, A D W Todd *et al.* 2017 **The equilibrium liquidus temperatures of rhenium–carbon, platinum–carbon and cobalt–carbon eutectic alloys** *Metrologia* **54** 390 https://doi.org/10.1088/1681-7575/aa6eeb

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M Gotoh and S N Dedyulin 2017 **Nickel–silver monotectic in alumina crucible for use with contact thermometry** *Int J Thermophys* **38** 82 https://doi.org/10.1007/s10765-017-2211-0

S N Dedyulin 2017 **Sulfur hexafluoride: a novel fixed point for contact thermometry** *Int J Thermophys* **38** 79 https://doi.org/10.1007/s10765-017-2216-8

S N Dedyulin, M Gotoh and A D W Todd 2017 **Au fixed point development at NRC** *Int J Thermophys* **38** 55 https://doi.org/10.1007/s10765-017-2186-x

P M C Rourke 2016 **The triple point of sulfur hexafluoride** *Metrologia* **56** L1 https://doi.org/10.1088/0026-1394/53/2/L1

E R Woolliams *et al.* 2016 **Thermodynamic temperature assignment to the point of inflection of the melting curve of high-temperature fixed points** *Phil Trans R Soc A* **374** 20150044 https://doi.org/10.1098/rsta.2015.0044

K D Hill 2015 **High-temperature platinum resistance thermometry: the problem with silver and the case for gold** *Metrologia* **52** 478 https://doi.org/10.1088/0026-1394/52/4/478

Y Yamada *et al.* 2015 **Evaluation and selection of high-temperature fixed-point cells for thermodynamic temperature assignment** *Int J Thermophys* **36** 1834 https://doi.org/10.1007/s10765-015-1860-0

P P M Steur *et al.* 2015 **Isotopic effects in the neon fixed point: uncertainty of the calibration data correction** *Metrologia* **52** 104 https://doi.org/10.1088/0026-1394/52/1/104

K D Hill 2015 **Platinum resistivity below 273.16 K: a tale of two reference functions** *Metrologia* **52** 54 https://doi.org/10.1088/0026-1394/52/1/54