

## Papers Published out of MEA



*Dr. Andrew Skinner, Founder and Engineering Director.*

It's a long haul between dreaming up an idea, building the necessary gadgetry, testing it, gathering data and then writing up that story in such a way that it passes the scrutiny of one's sceptical peers.

Here are a few papers that Andrew managed to squeeze past dozens of unknown reviewers in among the world's universities and research institutions.

Many of MEA's great instruments are founded upon this body of work.

1. Skinner, A. J., Lambert, M. F. (2006). 'Using smart sensor strings for continuous monitoring of temperature stratification in large water bodies.' IEEE Sensors, Vol. 6, No. 6, December 2006
2. Skinner, A. J., Lambert, M. F. (2009). 'A log-antilog analog control circuit for constant-power warm-thermistor sensors – Application to plant water status measurement.' IEEE Sensors, Vol. 9, Number 9, September 2009
3. Skinner, A. J., Lambert, M. F. (2009). 'Evaluation of a warm-thermistor flow sensor for use in automatic seepage meters.' IEEE Sensors, Vol. 9, Number 9, September 2009
4. Skinner, A.J. and Lambert, M.F. (2010). 'An automatic soil salinity sensor based on a wetting front detector.' IEEE Sensors Journal, Vol. 11, Issue 1, p245-254, January 2011.
5. Skinner, A.J. and Lambert, M.F. (2010). 'A null-buoyancy thermal flow meter: Application to the measurement of the hydraulic conductivity of soils' IEEE Sensors Journal, Vol. 11, Issue 1, p71-77, January 2011
6. Skinner, A.J. (2012) 'Field measurements of crop water stress in grapevines using thermal diffusivity and vapour pressure deficit sensors' ISHS Symposium on Irrigation of Horticultural Crops, Geisenheim, Germany July 2012 (Conference Paper, delivered)
7. Skinner, A.J. (2013) 'Engineering a Sap Flow Sensor for Irrigators' ISHS - IX International Workshop on Sap Flow, Gent, Belgium June 2013 (Conference Paper)
8. Skinner, A.J. (2013) 'Life beneath the waves: fun with temperature sensor strings' AHA (Australian Hydrographic Association) Journal, September 2013
9. Skinner, A.J. 'Measurement of Very Slow Flows in Environmental Engineering', PhD Thesis, Dec. 2009, University of Adelaide (accepted for the award)
10. Skinner, A.J. 'Measurement of Wind Energy in South Australia', Master of Engineering Thesis, Sep. 1987, South Australian Institute of Technology
11. Loveys, B., McCarthy, M., Jones, H.G., Theobald, J. and Skinner, A.J. (2005) 'When to water? Assessment of plant-based measurements to indicate irrigation requirements' GWRDC Project Number CSP02/02 CSIRO Publications