

# *Curriculum Vitae*

## *Stephen J. Crothers*

- Born Sydney, Australia, 14<sup>th</sup> June 1957.
- Left school in 1976 and began an apprenticeship as an aircraft instrument engineer.
- Returned to high school studies in 1978.
- At age nineteen began working as a private detective and remained in this line of work for approximately twenty-five years.
- Returned to academic studies by part-time university distance education and part-time evening classes at technical college as a mature-age student, obtaining the Advanced Certificate Computer Technology in at age 34 and the BA at age 36. Subsequently undertook a number of post-graduate qualifications in mathematics, engineering and technology, again by part-time distance education.
- Engaged in sessional teaching and tutoring for a period of approximately twelve years for a number of universities and colleges, giving instruction in mathematics, physics, electronic engineering and computing.
- Commenced research in theoretical physics at age 47.
- Political persuasion – none.
- Religion – none: atheist.

### **EDUCATION**

- Secondary schooling with the Marist Brothers, taking the School Certificate (year 10) in 1976.
- Higher School Certificate (year 12) 1978 when a student at Gympie Technical College.

- Advanced Certificate Computer Technology from St. George Technical College of the Department of Technical and Further Education, New South Wales (TAFE-NSW), 1991.
- Bachelor of Arts, Deakin University, 1993.
- Graduate Certificate of Engineering, Deakin University/Engineering Education Australia, 1998.
- Graduate Diploma Sc. (Pure Mathematics), University of New England, 2000.
- Graduate Diploma Technology (Occupational Hygiene), Deakin University, 2000.
- Master of Astronomy (with Distinction), University of Western Sydney, 2002.
- Certificate IV Occupational Health & Safety, TAFE-NSW, 2005.
- Certificate III Investigative Services, Nationally accredited RTO\* 2005.
- Certificate IV Assessment & Workplace Training, Nationally accredited RTO, 2005.

## **ACADEMIC AWARDS**

- 1991: 1<sup>st</sup> Place (Stage 3) - Advanced Certificate Electronics & Computer Technology, TAFE NSW.
- 2008: Santilli-Galilei Association<sup>†</sup> Gold Medal (for “contributions to natural philosophy”) - presented in the UK (Wales) on 7<sup>th</sup> July 2008.

## **MEMBERSHIPS PROFESSIONAL ASSOCIATIONS**

- Australian Institute of Private Detectives
- Telesio-Galilei Association
- Alpha Institute for Advanced Study

## **WEBSITE**

[www.sjcrothers.plasmareources.com/index.html](http://www.sjcrothers.plasmareources.com/index.html)

---

\* Registered Training Organisation for the Department of Science, Education and Training, (Federal).

<sup>†</sup> Now the Telesio-Galilei Association

## PUBLICATIONS AND OTHER PAPERS

1. **On the General Solution to Einstein's Vacuum Field and its Implications for Relativistic Degeneracy.** *Progress in Physics*, v. 1, 68-73, 2005,

[www.ptep-online.com/index\\_files/2005/PP-01-09.PDF](http://www.ptep-online.com/index_files/2005/PP-01-09.PDF)

**On the Ramifications of the Schwarzschild Spacetime Metric.** *Progress in Physics*, v.1, 74-80, 2005,

[www.ptep-online.com/index\\_files/2005/PP-01-10.PDF](http://www.ptep-online.com/index_files/2005/PP-01-10.PDF)

**On the Geometry of the General Solution for the Vacuum Field of the Point-Mass.** *Progress in Physics*, 2005, v.2, 3-14,

[www.ptep-online.com/index\\_files/2005/PP-02-01.PDF](http://www.ptep-online.com/index_files/2005/PP-02-01.PDF)

**On the Generalisation of Kepler's 3<sup>rd</sup> Law for the Vacuum Field of the Point-Mass.** *Progress in Physics*, 2005, v.2, 37-42,

[www.ptep-online.com/index\\_files/2005/PP-02-05.PDF](http://www.ptep-online.com/index_files/2005/PP-02-05.PDF)

**On the Vacuum Field of a Sphere of Incompressible Fluid.** *Progress in Physics*, 2005, v.2, 43-47,

[www.ptep-online.com/index\\_files/2005/PP-02-06.PDF](http://www.ptep-online.com/index_files/2005/PP-02-06.PDF)

**On the General Solution to Einstein's Vacuum Field for the Point-Mass when  $\lambda \neq 0$  and its Consequences for Relativistic Cosmology,** *Progress in Physics*, v.3, 7-18, 2005,

[www.ptep-online.com/index\\_files/2005/PP-03-02.PDF](http://www.ptep-online.com/index_files/2005/PP-03-02.PDF)

**Introducing Distance and Measurement in General Relativity: Changes for the Standard Tests and the Cosmological Large-Scale.** *Progress in Physics*, v.3, 41-47, 2005,

[www.ptep-online.com/index\\_files/2005/PP-03-07.PDF](http://www.ptep-online.com/index_files/2005/PP-03-07.PDF)

**Short Discussion of Relativistic Geometry.** *Bulletin of Pure and Applied Sciences*, v. 24E (No.2), 267-273, 2005,

[www.sjcrothers.plasmaresources.com/shortgeo.pdf](http://www.sjcrothers.plasmaresources.com/shortgeo.pdf)

**A Brief History of Black Holes.** *Progress in Physics*, 2006, v.2, 54-57, 2006,

[www.ptep-online.com/index\\_files/2006/PP-05-10.PDF](http://www.ptep-online.com/index_files/2006/PP-05-10.PDF)

**On Isotropic Coordinates and Einstein's Gravitational Field.** *Progress in Physics*, v. 3, 7-12, 2006,

[www.ptep-online.com/index\\_files/2006/PP-06-02.PDF](http://www.ptep-online.com/index_files/2006/PP-06-02.PDF)

**On the Regge-Wheeler Tortoise and Kruskal-Szekeres Coordinates.** *Progress in Physics*, v. 3, 30-34, 2006,

[www.ptep-online.com/index\\_files/2006/PP-06-06.PDF](http://www.ptep-online.com/index_files/2006/PP-06-06.PDF)

**Planck Particles and Quantum Gravity,** *Progress in Physics*, v.3, 70-73, 2006, (with Jeremy Dunning-Davies),

[www.ptep-online.com/index\\_files/2006/PP-06-13.PDF](http://www.ptep-online.com/index_files/2006/PP-06-13.PDF)

**Relativistic cosmology revisited.** *Progress in Physics*, v. 2, 27-30, 2007,

[www.ptep-online.com/index\\_files/2007/PP-09-05.PDF](http://www.ptep-online.com/index_files/2007/PP-09-05.PDF)

**On line-elements and radii: a correction.** *Progress in Physics*, v. 2, 25-26, 2007,

[www.ptep-online.com/index\\_files/2007/PP-11-01.PDF](http://www.ptep-online.com/index_files/2007/PP-11-01.PDF)

**On the ‘Size’ of Einstein’s Spherically Symmetric Universe**, *Progress in Physics*, v. 4, 69-73, 2007,

[www.ptep-online.com/index\\_files/2007/PP-11-10.PDF](http://www.ptep-online.com/index_files/2007/PP-11-10.PDF)

**Gravitation On a Spherically Symmetric Metric Manifold**. *Progress in Physics*, v. 2, 68–74, 2007,

[www.ptep-online.com/index\\_files/2007/PP-09-04.PDF](http://www.ptep-online.com/index_files/2007/PP-09-04.PDF)

**On Certain Conceptual Anomalies in Einstein’s Theory of Relativity**. *Progress in Physics*, v. 1, 52–57, 2008,

[www.ptep-online.com/index\\_files/2008/PP-12-11.PDF](http://www.ptep-online.com/index_files/2008/PP-12-11.PDF)

**Crothers’ investigations into the Theory of Relativity**, (an invited Appendix to the book, *Hadronic Mathematics, Mechanics & Chemistry*, Vol. 1, by Professor Ruggero M. Santilli), 2008.

[www.sjcrothers.plasmaresources.com/Book-bit.pdf](http://www.sjcrothers.plasmaresources.com/Book-bit.pdf)

**Black Holes, Unicorns and all That Jazz**, 2008,

[www.sjcrothers.plasmaresources.com/Unicorns.pdf](http://www.sjcrothers.plasmaresources.com/Unicorns.pdf)

**Concerning Fundamental Mathematical and Physical Defects in the General Theory of Relativity**,

(invited paper for ‘The 20th International Congress of The Jangjeon Mathematical Society’, Bursa, Turkey, August 21-23, 2008), [www.sjcrothers.plasmaresources.com/Jangjeon-2008.pdf](http://www.sjcrothers.plasmaresources.com/Jangjeon-2008.pdf)

**Serious anomalies in the reported geometry of Einstein’s gravitational field**, (invited paper for the conference *Riemannian Geometry and Applications*, Riga, 2008),

[www.sjcrothers.plasmaresources.com/Riga-2008-final.pdf](http://www.sjcrothers.plasmaresources.com/Riga-2008-final.pdf)

**On Theoretical Contradictions and Physical Misconceptions in the General Theory of Relativity**,

(presentation at the conference ‘Physical Interpretations of Relativity Theory’, UK, 2008),

[www.sjcrothers.plasmaresources.com/PIRT-2008.pdf](http://www.sjcrothers.plasmaresources.com/PIRT-2008.pdf)

**Your article in *Nature*: “Bringing black holes into focus”**, 2008,

[www.sjcrothers.plasmaresources.com/Reynolds.pdf](http://www.sjcrothers.plasmaresources.com/Reynolds.pdf)

**The Black Hole Catastrophe and the Collapse of Spacetime**, (invited paper for the ‘Conference On Precession & Ancient Knowledge’, October 3-5, 2008, University of California, San Diego, USA.

[www.sjcrothers.plasmaresources.com/article-1-1.pdf](http://www.sjcrothers.plasmaresources.com/article-1-1.pdf)

**Fundamental Errors in the General Theory of Relativity**, (an invited monograph for a book entitled ‘Errors in the Einstein Field Equations’), 2008, [www.sjcrothers.plasmaresources.com/Chapter-3.pdf](http://www.sjcrothers.plasmaresources.com/Chapter-3.pdf)

**Geometric and Physical Defects in the Theory of Black Holes**, (invited paper for the conference ‘Mathematical Sciences for Advancement of Science and Technology (MSAST 2008)’, Institute for Mathematics, Bioinformatics, Information Technology and Computer Science (IMBIC), Salt Lake City, Kolkata (Calcutta), India, December 22–23),

[www.sjcrothers.plasmaresources.com/MSAST-Crothers.pdf](http://www.sjcrothers.plasmaresources.com/MSAST-Crothers.pdf)

**The Schwarzschild Solution and its Implications for Gravitational Waves: Part I**, (submission for the conference ‘SPESIF-2009’, Huntsville, AL, Von Braun Center, February 24-27, 2009, ‘Space, Propulsion and Energy Sciences International Forum’),

[www.sjcrothers.plasmaresources.com/Waves-1.pdf](http://www.sjcrothers.plasmaresources.com/Waves-1.pdf)

**The Schwarzschild Solution and its Implications for Gravitational Waves: Part II**, (submission for the conference ‘SPESIF-2009’, Huntsville, AL, Von Braun Center, February 24-27, 2009, ‘Space, Propulsion and Energy Sciences International Forum’),

[www.sjcrothers.plasmaresources.com/Waves-2.pdf](http://www.sjcrothers.plasmaresources.com/Waves-2.pdf)