

# **CURRICULUM VITAE**

**Karl Sven Kruszelnicki**

**2011**

## **PERSONAL INFORMATION**

**Full Name:** Karl Sven Woytek Sas Konkovitch

Matthew Kruszelnicki

**Place of Birth:** Hålsingborg, Sweden

**Address:** University of Sydney, Physics

Department (A28), NSW, 2006

## EDUCATION

1953 to 1959: Primary School Education at the Little Flower School in Wollongong, NSW

1960 to 1964: Secondary School Education at Edmund Rice Christian Brothers College in Wollongong, NSW. Received **Commonwealth Scholarship** to University.

1965 to 1967: Tertiary Education at the Wollongong Campus of the University of New South Wales, reading for a **Bachelor of Science in Physics and Mathematics. (B. Sc.)**.

1968 to 1969: Read for a **Master of Science (Qualifying)** in **Astrophysics** at the Wollongong Campus of the University of New South Wales. (**M. Sc. (Qual.)**)

1977: Studied as a miscellaneous student in **Computer Science** at the University of New South Wales.

1978: Commenced reading for a **Master of Biomedical Engineering** at the University of New South Wales (part-time).

1979-1980: Full-time student at the University of New South Wales. Received two scholarships - **Commonwealth Government Scholarship** in 1979 and **Lions Fellowship** in 1980. Studied under Dr. Peter Gouras in Jan/Feb 1980 at the Columbia University Presbyterian Physician's and Surgeon's Hospital in New York to gain extra knowledge in the field of electroretinography (detecting electrical signals from the human retina).

Designed and built an electroretinograph. This device is still in use at the Prince of Wales Hospital, in association with the Retinitis Pigmentosa Foundation. Completed degree of **Master of Biomedical Engineering. (M. Biomed. E.)**.

1981 to 1984: Read for degree in Medicine and Surgery at the University of Sydney. Awarded **Grafton Elliot Smith Memorial Prize for Anatomy** in 1982. Awarded **Alexander James Scholarship for Community Medicine** in 1984.

1982: Elected **Member of the Australian Institute of Physics. (M.A.I.P.)**.

1986: Completed **Bachelor of Medicine and Bachelor of Surgery. (MB, BS).**

## **PROFESSIONAL EXPERIENCE**

**1968 to 1969:** Worked at the Port Kembla Steelworks of Broken Hill Proprietary Limited/Australian Iron and Steel as a **Physicist**. Tested the fatigue properties of various Australian steels, including the steels used in the Westgate Bridge and the Natural Gas Pipeline. Designed certain large machines to test steels to destruction.

**1970 to 1971: Tutor/Research Assistant** at the Institute of Higher Technical Education in Lae in Papua and New Guinea. Taught Physics and did research into hair and wool (wool is an important export of New Guinea). Worked on secondment with the Commonwealth Scientific and Industrial Research Organisation at Top Ryde (Wool Division), to gain further knowledge applicable to work in New Guinea.

**1972 to 1975:**

**Filmmaker** - One of the first Australians to receive a grant to make films. Made art films, promotion films and clips for music videos, several of which went to air. Worked in 16mm film (colour and black & white) and video. Designed and built own film processing laboratory.

**Car Mechanic** - Was apprentice to a master mechanic. Set up own workshop and repaired automobiles.

**Road Manager** for various bands, eg, Slim Dusty, Bo Diddley, Bullamakanka Bush Band, Anne Kirkpatrick Band, And Band, Wasted Daze, etc.

**Taxi Driver** - Drove 250,000 km for Legion Taxis in Sydney.

**1976 to 1978: Scientific Officer** in Cardiology Unit at Prince Henry Hospital at Little Bay in Sydney. Involved in Cardiac Catheter studies of Coronary Blood Flow.

**1979 to 1980: Taxidriver** and manufactured T-shirts to supplement income from Scholarships, whilst reading for a **Master of Biomedical Engineering** at the University of New South Wales.

**1981 to 1997:** Various Parallel Careers (Media, Medicine, Academia, Travel, Public Lectures, etc)

## TELEVISION

1985: **Presenter** in the opening series of **QUANTUM**. Reported stories from Japan and Australia. Was the first to point out that , via the oral route, the infective dose of AIDS was 5 litres of saliva. Worked with Professor Peter Mason.

1986 to 1988: **Reporter** for the **Midday Show with Ray Martin** (Part-time, about once every 2-3 weeks).

1988: **Script-Writer** - 20 scripts for ABC-TV health show called **Life Be In It - The Body Show**.

1988: **Script-Writer** - 12 x 30-minute scripts for a children's show called "**Bright Sparks**"

1989: **Full-time reporter** for **The Midday Show with Ray Martin**

1990: **Part-time reporter** for **The Midday Show with Ray Martin** (while travelling around Australia in 4WD military truck). **Regular Guest** (every 2 weeks) for **Robbo's World**.

1991: **Full-time reporter** for **Good Morning Australia**. This soon evolved into being **Weather Reporter** and **Science Reporter** (**wrote, produced and presented**, in front of chroma-key, 10 science stories (each about 3 minutes long) per week) for **Good Morning Australia**.

1992: On-air on **Good Morning Australia** every day as **panelist/science reporter**.

1993: **Script Consultant** for **Lift-Off 2, Sky-&Space Show** for ACTF, and **Kiddeo**

1994: **Part-time reporter** weekly for **The Midday Show with Derryn Hinch**, and **Live-It-Up**

1995: Regular monthly guest with Trish Goddard on **Live-It-UP**, Regular monthly guest with Bert Newton on **Good Morning Australia**

1996+ Regular on **The Midday Show with Kerrie-Anne Kennerley**.

1997,'98 Regular on SBS Medical series **Second Opinion - Series I & II**.

2008 & 2010: **Presenter, writer & co-producer** of '**Sleek Geeks**' – 6 & 8 part comedy/popular science series for ABC1 TV.

**1998 to Present:** Regular guest on Sunrise Channel 7, Good News Week, Glasshouse, Bert Newton and various other shows.

## **RADIO:**

**1981: Wrote and presented radio program** ( on 2JJJ (Sydney) and Radio National ABC), called "**Great Moments in Science**" to pay way through medical school. This show won two **Australian Hi-Fi FM Awards in the Category of Education** in 1982 and 1983 and was awarded an honourable mention in 1984. Still running in 1995.

**1986:** 2SM (Sydney) - **Wrote and presented radio program** called "**Expand Your Brain**". Ceased in June 1987.

**1986:** 2UE(Sydney) - **Wrote, presented and produced** a series of 3, onehour, radio specials on science called "**Science Bizarre**".

**1987:** 2UE(Sydney) - **Presented** weekly 1-2 hour-long talkback radio with Julie Brodsky

**1988:** 2BL(Sydney) - **Presented** fortnightly 1 1/2 hour-long talkback radio with Jonathan Biggins.

**1989:** 2JJJ(Sydney) - **Wrote and Presented "*Great Moments in Science*"**, with Chris Norris as Producer.

2GB(Sydney) - **Regular guest** (weekly) with Clive Robinson and Mike Jeffries.

**1990:** 2JJJ(Sydney, and networked around Australia on Youth Network). **Wrote and Presented "*Great Moments in Science*"**, with Chris Norris as Producer.

2NC - (and throughout NSW on ABC Regional Radio Network). Regular weekly Sunday morning **phone-in** with John Church, talking about various 4WD travels (when off-road), and science/medicine/engineering matters (when not travelling)

2UE - regular **guest** with Phillip Adams

**1991:** 2JJJ(Sydney, and networked around Australia on Youth Network). **Wrote and Presented "*Great Moments in Science*"**, with Chris Norris as Producer.

2JJJ **Presented** weekly 1-hour science/medicine/engineering talkback with Angela Catterns

2NC - (and throughout NSW on ABC Regional Radio Network). Regular weekly Sunday morning **phone-in** with John Church, talking

about various travels, and science/medicine/engineering matters (when not travelling)

**1992:** 2JJJ(Sydney, and networked around Australia on Youth Network). **Wrote and Presented "Great Moments in Science"**, with Chris Norris as Producer.

2JJJ **Presented** weekly 1-hour science/medicine/engineering talkback with Angela Catterns

2NC - (and throughout NSW on ABC Regional Radio Network).

Regular weekly Sunday morning **phone-in** with John Church, talking about various travels, and science/medicine/engineering matters (when not travelling)

2CH - Regular weekly phone-in with Mike Jeffries on Morning Show, on scientific/medicine/engineering matters

2RE - Regular monthly phone-in with Terry Sara on science/medicine/engineering matters

**1993:** 2JJJ (Sydney, and networked around Australia on Youth Network).

**Wrote and Presented "Great Moments in Science"**, with Chris Norris as Producer.

2JJJ **Presented** weekly 1-hour science/medicine/engineering talkback with Angela Catterns

2NC - (and throughout NSW on ABC Regional Radio Network).

Regular weekly Sunday morning **phone-in** with John Church, talking about various travels, and science/medicine/engineering matters (when not travelling)

2CH - Regular weekly pre-records with Mike Jeffries on Morning Show, on scientific/medicine/engineering matters

2RE - Regular monthly phone-in with Terry Sara on science/medicine/engineering matters

7ZR - Regular fortnightly science talk-back with Jules Retrot National Program Unit of the ABC - syndicated weekly science stories (produced by Chris Norris) to every regional ABC station in Australia.

**1994:**2JJJ **Presented** weekly 1-hour science/medicine/engineering talkback with Angela Catterns

2NC - (and throughout NSW on ABC Regional Radio Network).

Regular weekly Sunday morning **phone-in** with John Church, talking about various travels, and science/medicine/engineering matters (when not travelling) Regular weekly Tuesday afternoon **phone-in** with John Clarke, talking about various travels, and science/medicine/engineering matters (when not travelling)

2GB - Regular weekly live half-hour sessions with Clive Robertson on Morning Show, on scientific/medicine/engineering matters

ABC Regionals, South Australia - Regular weekly live 10-minute sessions with Simon Royal, on scientific/medicine/engineering matters.  
7ZR - Regular fortnightly science talk-back with Jules Retrot  
National Program Unit of the ABC - syndicated weekly science stories (produced by Daniel Driscoll) to every regional ABC station in Australia.

**1995: 2JJJ Presented** 1-hour science/medicine/engineering talkback (Thursday 1100-1200) with Angela Catters. Daily pre-recorded science stories (produced by Mike Wilcox), running 3 minutes.

2NC - (and throughout NSW on ABC Regional Radio Network).

Regular weekly Sunday morning (1030-1040) **phone-in** with John Clarke, talking about various travels, and science/medicine/engineering matters (when not travelling) Regular weekly Tuesday morning (1030-1055)

**phone-in** with Mickey de Stoop, talking about various travels, and science/medicine/engineering matters (when not travelling)

ABC Regionals, South Australia - Regular weekly (Monday 1715-1725) live 10-minute sessions with Simon Royal, on scientific/medicine/engineering matters.

7ZR - Regular fortnightly (Tuesday 2000-2100) science talk-back with Lisa Hampshire

AM 720 (6WF) - Regular monthly (Thursday 1330-1400) science talk-back with Verity James

2BL - Regular fortnightly (Thursday 1330-1400) science discussion with Angela Webber.

National Program Unit of the ABC - syndicated weekly science stories (produced by Daniel Driscoll) to every regional ABC station in Australia.

**1996, 1997**

### **SUNDAY MORNING**

2NC Newcastle 10.30 - 11.00 with Madeline Randall, covering all of NSW.

### **TUESDAY AFTERNOON**

S.A. Regional Radio 17.00 - 17.15, covering all of SA.

### **EVERY THURSDAY**

Triple J with Sarah Macdonald 11.00 - 12.00, Australia wide.

3LO Melbourne with Gael Jennings 14.30 - 15.00, covering all of VIC.

2NC Newcastle with Lindy Burns 15.30 - 16.00, Newcastle district only.

2BL Sydney with Liz Heath 14.00 - 14.30, covering all of NSW

**1998 - 1999**

**EVERY THURSDAY**

2BL Sydney with Sally Loane 10.00 - 10.30, covering all of NSW

Triple J with Sarah Macdonald 11.00 - 12.00, Australia wide.

3LO Melbourne with Derek Guille 14.30 - 15.00, covering all of VIC.

**2000 to present:**

**EVERY THURSDAY**

**ABC FNQ:** with Fiona Sewell

**ABC Brisbane:** with Madonna King

**Triple J:** with Zan Rowe 11.00 - 12.00, Australia-wide.

**ABC Gold Coast:** with Bernadette Young

**ABC Adelaide:** with Carole Whitelock (fortnightly)

**BBC Five Live:** with Rhod Sharp. One hour science talkback on National BBC News Talks, 'Up All Night'.

Record a 'Great Moments In Science' 5-minute science based story for National Syndication on ABC radio

## **PUBLICATIONS**

**"Electroretinography - An Assessment of Techniques"**, by Karl S. Kruszelnicki, Jackie Joy and E.M. Nicholls, *Australasian Physics and Engineering Sciences in Medicine*, 1981, Vol. 4, No. 4

1984: **"Great Moments in Science"**, Boobook Publications (Balgowlah, NSW, Australia), ISBN 0 908121 08 3

1985: **"Even Greater Moments in Science"**, Boobook Publications (Balgowlah, NSW, Australia), ISBN 0 908121 16 4

1986: **"Science Bizarre"**, Australian Broadcasting Corporation Enterprises, Sydney, Australia, ISBN 0 642 52740 7

1987: **"Science Bizarre II"**, Australian Broadcasting Corporation Enterprises, Sydney, Australia, ISBN 0 642 53070 X

1988: **"Great Australian Facts and Firsts - Science and Technology"**, Harcourt Brace Jovanovich, (Australia), 1988, ISBN 0 7295 0286 4 (Written in collaboration with Dr. Mary Dobbie)

**"Great Australian Facts and Firsts - Nature and the Land"**, Harcourt Brace Jovanovich, (Australia), 1988, ISBN 0 7295 0287 2 (Written in collaboration with Dr. Mary Dobbie)

**"Great Australian Facts and Firsts - People and Achievements"**, Harcourt Brace Jovanovich, (Australia), 1988, ISBN 0 7295 0288 0 (Written in collaboration with Dr. Mary Dobbie)

1991: **"Latest Great Moments in Science"**, Australian Broadcasting Corporation Enterprises, Sydney, Australia, ISBN 0 7333 0144 4

1992: **"Spacescape"**, Harcourt Brace Jovanovich, (Australia), 1992, ISBN 0 7295 0876 6

1993: **"Bizarre Moments in Science"** Australian Broadcasting Corporation Enterprises, Sydney, Australia, 1993, ISBN 0 7333 0210 6

1994: Cassette entitled **"Fantastic Moments in Science"** Australian Broadcasting Corporation Enterprises, Sydney, Australia  
**"Absolutely Fabulous Moments in Science"** Australian Broadcasting Corporation Enterprises, Sydney, Australia, 1994, ISBN 0-7333-0407-9

1995: **"Sensational Moments in Science"** Australian Broadcasting

*Corporation Enterprises, Sydney, Australia, 1995, ISBN 0 7333 0456 7*

1996: **“Pigeon Poo the Universe & Car Paint - and other awesome science moments”**, *HarperCollins Publishers Pty Ltd, Australia, 1996, ISBN 0 7322 5723 9*

1997: **“Ears, Gears and Gadgets”**, *HarperCollins Publishers Pty Ltd, Australia, 1997, ISBN 0-207-19610-9*

**“Forests, Fleece & Prickly Pears”**, *HarperCollins Publishers Pty Ltd, Australia, 1997, ISBN 0-207-19611-7*

**“Flight, Food & Thingummygigs”**, *HarperCollins Publishers Pty Ltd, Australia, 1997, ISBN 0-207-19612-5*

**“Flying Lasers, Robofish and Cities of Slime - and other brainbending science moments”**, *HarperCollins Publishers Pty Ltd, Australia, 1997, ISBN 0 7322 5874 X*

1998: **“Munching Maggots, Noah’s Flood and TV Heart Attacks and other cataclysmic science moments”**, *HarperCollins Publishers Pty Ltd, Australia, 1998, ISBN-0-7322-5858-8*

1999: **“Fidgeting Fat, Exploding Meat and Gobbling Whirly Birds and other delicious science moments”**, *HarperCollins Publishers Pty Ltd, Australia, 1999, ISBN-0-7322-5875-8*

2001: **“Q&A With Dr. K - Why It Is So. Headless Chickens, Bathroom Queues and Belly Button Blues”**, *HarperCollins Publishers Pty Ltd, Australia, 2001, ISBN-0-7322-5855-3.*

2002: **“Dr Karl’s Collection of Great Australian Facts & Firsts”**, *HarperCollins Publishers Pty Ltd, Australia, 2002, ISBN-0-207-19860 8*  
**“Dr Karl’s Great Moments In Science” (Video)**, *ABC Video, Nov. 2002 release. An animated series, featuring live Dr. Karl segments.*

2003: **“Bumbreath, Botox and Bubbles – and other Fully Sick Science Moments”**, *HarperCollins Publishers Pty Ltd, Australia, 2003, ISBN 0 7322 6715 3.*

2004: **‘Great Mythconceptions – Cellulite, Camel Humps and Chocolate Zits’**, *HarperCollins Publishers Pty Ltd, Australia, 2004, ISBN 0 7322 80620 1.*

2005: **‘Dis Information and Other Wikkid Myths’**, *HarperCollins Publishers Pty Ltd, Australia, 2005, ISBN 07322 80620 5.*

2006: **‘It Ain’t Necessarily So...Bro’**, *HarperCollins Publishers Pty Ltd, Australia, 2006 ISBN 07322 8061 3.*

2007: '**Please Explain**', *HarperCollins Publishers Pty Ltd, Australia, 2007* ISBN 978 07322 8535 7.

2008: '**Science Is Golden**', *HarperCollins Publishers Pty Ltd, Australia, 2008* ISBN 978 07322 8536 4.

2009: '**Nevermind The BULLocks...Here's the Science**', *HarperCollins Publishers Pty Ltd, Australia, 2009* ISBN 978 07322 8537 1

2009: 'Dr Karl's Fact Or Fishy' (Board Game). Released through Imagination.

2010: '**Dinosaurs Aren't Dead**', *Pan Macmillan Australia, 2010* - ISBN 9780330425797

2010: 'Curious & Curiouser', *Pan Macmillan Australia, 2010* - ISBN 9781405040020

## **MEDICINE**

1987: Employed as **Intern** at Repatriation General Hospital Concord, NSW. Terms for the year were Accident and Emergency at Auburn and Nepean, and Gastroenterology, Biliary Surgery and Thoracic Surgery at Concord.

1988: Employed as **Resident** at Royal Alexandra Hospital for Children at Camperdown, NSW, and Neonatal Intensive Care Unit at John Spence Nursery at King George IV Hospital, Camperdown, NSW.  
1990/1991: Regular casual shifts as Resident at Royal Alexandra Hospital for Children at Camperdown, NSW, in Accident and Emergency.

## **ACADEMIA**

1995+ Julius Sumner Miller Fellow, with The Science Foundation for Physics, School of Physics, University of Sydney

## **AWARDS**

1979 **Commonwealth Government Scholarship**

1980 **Lions Fellowship**

1982 **Australian Hi-Fi FM Awards** in the Category of Education

1982 **Grafton Elliot Smith Memorial Prize for Anatomy**

1983 **Australian Hi-Fi FM Awards** in the Category of Education

1984 **Alexander James Scholarship for Community Medicine**

1984 **Australian Hi-Fi FM Awards** in the Category of Education -  
honourable mention

1994 **Michael Daley Awards for Science, Technology and  
Engineering Journalism**

Best Entry (print or broadcast) relating to the topic "Remote Sensing",  
the field of the 1995 Australia Prize. Best Radio Entry (news, feature or  
documentary) for "Tsunamis" and "Science Talkback" (Joint award,  
shared with Elizabeth Finkel of Ockham's Razor.

2000 **Australian Financial Review Internet Awards, Winner of Best  
Science and Technology Website.**

2000 Apple Masters Award - (Macintosh Computers)

2002 Ig Nobel Award for research into why belly button fluff is blue, and  
why we get it. This was presented at a ceremony held at Harvard  
University in Boston.

2002 Centenary Australia Medal - For major service in raising public  
awareness of the importance of science and technology.

2003 Australian Father of the Year

2006 Appointed Member of the Order of Australia (AM), on the  
Australia Day Honours List - For service to the community through  
promoting greater understanding and knowledge of the application of

science to daily living as an author and science commentator on radio and television.

2007 Awarded Australian Skeptic Of The Year, by the Australian Skeptics Society