

# Australia Innovates

an on-line guide to innovation in Australia's industries

[www.phm.gov.au/australia\\_innovates](http://www.phm.gov.au/australia_innovates)

## A century of innovation

### Agriculture and food

Federation wheat 1903  
Sunshine header harvester 1914  
Rotavator rotary hoe 1923  
Vegemite 1924  
Toft cane harvester 1961  
Wine cask 1966  
Dynamic Lifter fertiliser 1972  
Miniboil water heater 1981  
Nematodes for pest control 1981  
Nogall pest control 1989  
Buffalo fly trap 1992  
Partial Rootzone Drying 1999

### Health

Helena Rubinstein cosmetics 1902  
Royal Flying Doctor Service 1928  
Both respirator 1937  
Penicillin 1944  
Disposable syringe 1949  
Begg orthodontic technique 1956  
CSL antivenoms 1956  
Sola plastic lenses 1960  
Microsurgery 1973  
National Trachoma Program 1976  
Ultrasound technology 1976  
CPAP sleep apnoea control 1981  
IVF freezing 1983  
Relaxin birth hormone 1989  
G-CSF immunity booster 1991  
Relenza flu treatment 1999

### Manufacturing

Froth flotation process 1904  
Humespun pipe 1910  
Hardwood pulping 1927  
Warman slurry pumps 1938  
Owen gun 1941  
Ore slurry probes 1972  
ISA Process 1979  
Coalscan coal analysis 1982  
Durable heavy rail technology 1982  
Isasmelt ore smelter 1983  
Jameson Cell ore process 1985  
Plastic banknotes 1988  
EXELGRAM anti-counterfeiting technology 1992  
Casting thin sheet steel 2000

### Communications and IT

Automatic totalisator 1913  
School of the Air 1951  
Fluid head camera mount 1954  
Moldflow design software 1978  
Bara Sonobuoy Sonar 1980  
Cochlear implant 1983  
ISYS text retrieval software 1988  
Mountbatten Braille 1990  
Nomad computer interface 1990  
Eddie special effects software 1991  
Ericsson phone queuing system 1992  
SmartModem 1992  
Passport Security 1995

### Household and clothing

Brick veneer house construction 1928  
Speedo swimwear 1929  
Shepherd castors 1946  
Splayds cutlery 1946  
Hills clothes hoist 1948  
Victa mower 1952  
Wool technology 1957  
Staysharp knife 1970  
Triton workcentre 1976  
Dual flush toilet 1982  
Mambo designs 1984  
Balarinji designs 1989

### Research

X-ray crystallography 1912  
Flame Ionisation Detector 1957  
Atomic Absorption Spectrometer 1962  
Australia Telescope 1988  
Polilight forensic lamp 1989

### Transport

Michell thrust bearing 1907  
The Ute 1934  
Australian six cylinder family cars 1948  
Black box flight recorder 1961  
Bishop steering systems 1971  
SCATS traffic flow system 1975  
ATPD pedestrian button 1984  
Wave Piercing Catamaran 1984  
Baby safety capsule 1984

### Energy and Environment

Cactoblastis moth 1926  
Snowy Mountains Scheme 1949  
Solahart water heater 1953  
Atom engine ignition 1976  
Permaculture 1976  
Rib Loc pipe 1980  
Landcare 1989  
Clean Up Australia Day 1990  
Buried contact solar cell 1991  
Fire-Brake foam 1993  
Orbital engine technology 1995

### Leisure

Early Australian cinema 1905  
Surf lifesaving movement 1906  
Sydney Opera House 1973  
Super Sopper 1974  
World Series Cricket 1977  
Fairlight CMI synthesiser 1979  
Racecam TV sport coverage 1979



**Australian Academy of  
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