

Dr Joel Cayford - Curriculum Vitae – 2014

Education, Professional Qualifications & Personal Details

2013 - 2014	University of Auckland, New Zealand enrolled for PhD in Planning entitled <i>Phronesis, Urban Planning and Waterfront Regeneration: Cases from Auckland and Wellington, New Zealand</i> . Completed provisional year. Completed Research paper: <i>Urban Regeneration Planning in New Zealand: Phronetic Analysis of Princes Wharf on Auckland's Waterfront</i> . Under peer review and consideration for conference presentation.
2008 - 2011	University of Auckland, New Zealand Masters in Planning Practice. Research includes Strategic Planning Advice for Britomart Rail Loop Designation preparation, <i>Pacific Island Housing: Vernacular Design, Best Practice Indicators and Spatial Planning</i>
2005 & 2009	MfE Certified RMA Resource Consent Hearings Commissioner
1998 - 2011	Program of conference based education (Three Water, Transport and Urban Planning). Conference and study trip attendance funded through donations and website event promotion (<i>ecocitymagazine</i> and <i>watermagazine</i>). Papers accepted for presentation (See below).
1981 - 1985	Self-guided study of best practice techniques for classroom-based technology-led course design, and also for ergonomic aspects of computer/video screen design and layout
1973 - 1975	University of Canterbury, Christchurch, New Zealand PhD Computational Atomic Physics.
1970 - 1972	University of Canterbury, Christchurch, New Zealand. BSc (Hons) Physics
Place of Birth	Oamaru, New Zealand
Contact	12 St Leonards Rd., Devonport, North Shore. 0274 978 123

General Skills

- Intelligent problem solver and planner (strategic and lateral thinker)
- Multi-disciplinary experience and capability (blended teaching approach)
- Educational design and training needs analysis (sees gaps in understanding)
- Effective and persuasive communicator (creative conceptualiser & speaker)
- Highly numerate and technically competent (car mechanic's son + physics PhD)
- Experienced user of ICT technologies in teaching and planning (including his best practice *Reflections on Auckland Planning* blog, and web publishing initiatives including *Places4People.org.nz*, *watermagazine.com* and *ecocitymagazine.com*)

Subject Expertise

- Urban planning economics, finance, public, private, and PPPs
- Local Government Act and Resource Management Act processes
- Comprehensive and Spatial planning, economic and community development

- Public infrastructure economy, financial planning, budgeting, performance monitoring
- Network utility economics & function (water, transport, energy, telecommunications)
- Communications, Public Relations and Marketing

Planning Experience

2012-2014: CONSULTANCY - LAND USE PLANNING Joel was engaged by the Waterfront Development Agency as its project “challenge team” – until October 2014. His role was to critique planning reports and documents, and to independently review waterfront planning and development projects. He has been invited to make presentations to planning staff on international waterfront and urban regeneration planning study trips he has initiated including to Baltimore, Dublin, Kings Cross London, Newcastle Upon Tyne, Greenwich London. He has provided planning advice relating to best practice urban regeneration governance and planning, transport planning, and stakeholder engagement (which has led to the development of the Waterfront Centre initiative, and a research grant from Transforming Cities.)

2011-2014: CONSULTANCY - TRANSPORT & LAND USE PLANNING Joel was retained until October 2014 as an urban and transport planner by McCormick Rankin Cagney to peer review, critique and provide drafts for various planning projects including the Auckland Transport Plan, Park n’ Ride infrastructure, and Quality Transport Network bus infrastructure planning for Auckland. Parking provision in Rotorua. Transport governance in Dunedin. Methodology for economic assessment of PT infrastructure for NZ Transport Agency.

1998 - 2010: STRATEGIC AUCKLAND TRANSPORT & LAND USE PLANNING Joel led shifts in Regional Transport Strategy toward public transport and regional fuel tax funding, and parking strategy development as Chair of Auckland Regional Land Transport Strategy Ctte (2004-2007). Chaired ARC Transport Policy oversight of ARTA’s Passenger Transport Network Plan, QTN and RTN development. Joel Chaired Northern Corridor Steering Group responsible for Northern Busway design and implementation (1998-2007), and Second Harbour Crossing options (2004-2007). He chaired and led North Shore City Council transport strategy development promoting cycle infrastructure and intra city public transport service changes. He led initiative at Auckland Regional Council (and EECA) to require the internalisation of transport energy costs as a means of integrating transport strategy with land use planning (2008-2010). **Land use integration & urban economic development study visits:** Curitiba 2002, Perth 2005, Dubai 2008, Singapore 2009, Kuala Lumpur 2011

1994 - 2005: STRATEGIC THREE WATER PLANNING

Joel led public interest action regarding treatment needs of Waikato River water for potable purposes (1994-1997). He was Chair & Deputy Chair North Shore City Council’s Project Care initiative to improve wastewater collection system, develop 3 water strategy, and develop stormwater policy and district plan change (1998-2004). Key player in Auckland Regional Three Water Strategy development, and as Shareholder Representative on Watercare SRG (1998-2004). National working party member of PCE “Murky Waters, Aging Pipes” (analysis of water supply and wastewater issues throughout N.Z. rural and urban communities) and of MfE’s Community Wastewater Handbook and guidance project. Working party member of Landcare Research LIUDD project run from Auckland University. **Three water planning study visits:** Sydney 1999, London 2003

2001 – 2010: LOCAL GOVERNMENT STRUCTURE & FUNCTION

Joel was instrumental (through leading NSCC decisions and through representative participation in regional forums) in achieving important structural reforms in Auckland local government. These include the provision of Developer Levy powers in the Local Government Act, and the establishment of ARTA (Auckland Regional Transport Authority) (2001-2004). His substantial submissions to Royal Commission on Auckland Governance were cited by the commission and were influential in its structural recommendations (which were then ignored by Central Government) (2008-2009). International research into strategic spatial plan best practice, which is now being considered by Auckland Council (2010-2011). (Reports below.)

1998 - 2010: STATUTORY PLANNING IN AUCKLAND

Joel has served as commissioner on major development matters across Auckland (SH18 designation, wastewater network discharge consents, large scale subdivisions), and related plan changes (including shifts in the Metropolitan Limit).

2005 - 2010: WATERFRONT DEVELOPMENT PLANNING

Joel led public campaigns to ensure maritime heritage, built heritage and public amenity provided for significantly better than in Auckland waterfront development to date (Viaduct, Princes Wharf). **Self-funded waterfront development study visits to:** Darling Harbour, London Docklands, Stockholm, Malmo, Roskilde, Copenhagen, Hamburg waterfronts.

1997 - 1998: TELECOMMUNICATIONS INDUSTRY DE-REGULATION

Joel was responsible for policy research, international benchmarking industry regulation, infrastructure education, and public communications, convening suitable industry forums, and organising conference events. Required liaison with Treasury, Ministry of Commerce and Commerce Commission officials and communication with party political representatives.

Teaching Experience

Joel's teaching experience began at University of Canterbury where he lectured Special Relativity to classes of 100 undergraduate physics students for the three years of his PhD studies. He has tutored physics and calculus over the last ten years. He has lectured on planning topics at large and small conferences in New Zealand and internationally for the past fifteen years. He has taught undergraduate and post-graduate planning students at Auckland University over the past five years in lectures, face to face, & in studio.

2011 - 2014: AUCKLAND UNIVERSITY PART-TIME LECTURING AND COURSE DESIGN

In 2014 Joel was contracted to coordinate the new UrbPlan 201 course (Urban Policy Analysis). Joel has designed a new course, written and delivered the lectures, designed and marked the assignments and the exam. Prior to that Joel played a major role in designing and delivering BPlan 222 (RMA, Sustainability and District Plan writing) for 2011 semester 2, and again in 2012. This involved constructing learning outcomes and assignments, ensuring integration with Planning 221, 201 and 204 courses, preparation of guided learning materials for lectures and studio session exercises, organising four guest speakers, working with a team of tutors, and contributing to the course co-ordination. In 2012 Joel was engaged by Prof Dory Reeves to redesign and teach Planning 100 (Introduction to Planning). Joel established the course structure, prepared the lecture materials, added to an existing course reader, designed and marked the assignments and the exam.

2008 – 2014: AUCKLAND UNIVERSITY GUEST LECTURES: Joel has been invited to present a number of guest lectures while studying for his MPlanPrac at Auckland University. (Including for MPlan 701, MPlan 724 and MPlan 702 courses). These lectures have been based on his planning experiences with Auckland's Waterfront, Auckland Regional Transport Planning including AMETI, consenting processes relating to Three Kings Quarry use, Three Water management policies.

1998 - 2011: GUEST LECTURES and ISSUE PAPERS

During his service as an elected Councillor, Joel regularly prepared independent briefing papers on Auckland planning issues, published these through various internet outlets, and was as a consequence invited to speak at many conferences. Papers presented to NZWWA conferences 1999, 2001, 2002, 2003 and 2004 on topics including 3-Water Management; Legislation Reform; Politics of Community Sanitation. He was an invited speaker at Urban Planning conferences in Sydney, Brisbane (2007), Dubai (2008), Singapore (2009 & 2010), Kuala Lumpur (2011). He has presented papers for Auckland Transport conferences 2001, 2002, 2003, 2004, 2006, 2008, 2010. (See publications below.)

1991 - 2000: DESIGN AND PRODUCTION OF NZ VIDEO BASED TEACHING KITS

Joel applied his UK learned skills in educational resource design to produce and market within New Zealand senior secondary school, educational resources covering resource management themes of water management and mining and the environment. These kits

contain video case studies, briefing notes, classroom activities and lesson plans, all made and published by Joel through his company Team Video Pacific Ltd. (See pubs below.)

1982 - 1990: DESIGN AND PRODUCTION OF UK VIDEO BASED TEACHING KITS

Joel teamed up with two partners to design, produce and market to UK senior secondary schools and universities, educational stimuli and teaching resource kits based on documentary and drama video case studies. Topics included: Nuclear Weapons, Nuclear Power, Human Rights, Civil Liberties, Trade Unions, Job Design, Stress at Work. Joel's role in these projects was primarily educational design. He also produced instructional videos.

1979 - 1984: EDUCATIONAL AND TRAINING NEEDS ANALYSIS UK CORPORATES

EPIC (Eric Parsloe Industrial Communications) recruited Joel to head up its interactive video division which designed and produced interactive videodisc based resources. Clients included IBM UK (dealer training and business education around what a PC can do); British Telecom (training needs analysis and resource preparation relating to new telecommunications technologies); the Electronic Engineers and Telecommunications Trade Union (work based interactive education to up skill trades people). Joel's technical roles included preparation of systematic training needs analysis to drive the design process.

1973 - 1976: TEACHING FELLOW AT CANTERBURY UNIVERSITY

During PhD studies at Canterbury University in Christchurch, Joel was employed formally as Teaching Fellow. During this period he co-authored three papers published in refereed journals. For three years Joel was required to design and deliver the Physics Special Relativity course to Year One BSc students. The role also required Joel to set exam questions, mark them, and act as course tutor for class groups of 12 students.

Employment & Directorship Summary

- 2010 - 2014** **URBAN PLANNING CONSULTANT.** Independent planning consultant for New Zealand based projects.
- 2014** **SUB-CONTRACTED COURSE COORDINATOR, Architecture & Planning School, Auckland University.** Designed and delivered UrbPlan201 course.
- 2011 - 2012** **PROFESSIONAL TEACHING FELLOW, Architecture & Planning School, Auckland University.** Designed and taught BPlan 222 course and BPlan 100 course. Delivered guest lectures on MPlanPrac 701, 702, and 724 courses.
- 2004 - 2010** **ELECTED COUNCILLOR, Auckland Regional Council (ARC).** Chaired ARC's Transport Policy and Regional Land Transport Committees 2004-2007. Advocated public amenity and tourism attractions emphasis, alongside maritime heritage protection for re-development of Wynyard Quarter and Queens Wharf. Resource consent commissioner.
- 2008 - 2010** **APPOINTED BOARD DIRECTOR, EECA.** Appointed to Risk and Audit Ctte. Main contributions in relation to governance relations, local government sector, Auckland and energy sustainability in transport planning, RMA consenting and Maori planning.
- 1991 - Now** **DIRECTOR & MARKETING MANAGER, TEAM VIDEO PACIFIC, NZ.** Negotiates rights to international TV series and documentaries that fit curriculum requirements in NZ and Australian schools for maths, science, energy, environment & English. Packages and markets educational products. New titles for 2007-2008 include Climate Change and Energy.
- 1998 - 2004** **ELECTED COUNCILLOR, North Shore City Council.** Chair of Works and Environment Ctte – responsible for 3-water management (wastewater, stormwater, potable water), transport infrastructure, waste minimisation. Chair of Busway project. Council's Watercare Shareholder representative.

- 1996 - 1998** **POLICY & COMMUNICATIONS MANAGER**, The NZ Telecommunications Users Association. Engaged to lobby government & Commerce Commission regarding telecommunication competition law enforcement. Designed IT education resources for NZ telecommunications service and internet users.
- 1992 - 1995** **DIRECTOR**, Northern Disposal Systems Ltd, Auckland, and its offshoot The Living Earth Company. Specialist knowledge of waste and recycling industries.
- 1985 - 1996** **PARTNER**, TEAM VIDEO Productions, London. Educational film and video production, publishing and distribution within Britain and for export.
- 1983 - 1989** **PRINCIPAL CONSULTANT & HEAD OF PRODUCTION**, EPIC London. Designed Point of Sale, Training, and Information Systems for: IBM Personal Computers, Shell UK, Rolls Royce Jet Engines, British Telecom.
- 1976 - 1983** **SYSTEMS ANALYST**, SCICON/CAP, London. SHELL INTERNATIONAL, London. Project Managed simulation software development for Oil (strategic modelling of oil price and reserve depletion), Aluminium (full industry cycle modelling) & Defence (military systems scenario modelling) industries.

Publications

Research Reports

- Cayford, JK., 2014. *Urban Regeneration of Auckland: Best Practice Lessons from Northern Hemisphere*. Auckland, Waterfront Development Agency.
- Cayford, JK., 2013. *Review of Harbour Edge Transit Solutions*. Auckland, Waterfront Development Agency.
- Cayford, JK., 2010. *Best Practice Indicators for Auckland's Spatial Plan*. Auckland, Auckland Regional Council and Auckland Council.
- Cayford, JK., Harnett, D., 2009. *Vernacular Pacific Island Urbanism: The Tamaki Transformation Project*. Auckland, Auckland Regional Council and Housing New Zealand.
- Cayford, JK., Cranfield, J., Ferguson, E., Li, J., Utle, T., 2009. *Queens Wharf Urban Design Framework*. Auckland, Auckland Regional Council and Auckland City Council.
- Cayford, JK., 2008. *Towards a Britomart Rail Tunnel Notice of Requirement: An investigation about the development of an appropriate planning designation*. Auckland, ARTA.

Keynote papers accepted for conference presentation

- Cayford, JK., 2013. *What Does the RMA Protect?*. Auckland, Lexis Nexis. National Implications of the RMA.
- Cayford, JK., 2013. *Affordable Housing in Auckland*. Kuala Lumpur, Marcus Evans. International Affordable Housing Plenary.
- Cayford, JK., 2011. *Urban Transportation Planning & Integration Auckland New Zealand*. Kuala Lumpur, Marcus Evans. Sustainable Transport Conference.
- Cayford, JK., 2006. *Auckland Transport & Land Use for Economic Development*. Auckland, Conferenz Transport Summit Conference.
- Cayford, JK., 2005. *Auckland's Transport & Land Use –structural problems need structural fixes*. Auckland, Conferenz Transport Summit Conference.
- Cayford, JK., 2004. *Planning and Building a Busway in Auckland's Public Transport Vacuum*. Auckland, Conferenz Transport Summit Conference.
- Cayford, JK., 2003. *Learning From Curitiba – Moving towards a Long Term Planning Strategy for Greater Auckland*. Auckland, Conferenz 2004 Urban Planning Conference.
- Cayford, JK., 2002. *The Politics of Community Sewage and Wastewater Management*. Auckland, NZWWA 2002 Conference.

Cayford, JK., 2000. *Integrated Management: Opportunities for Councils and Communities keen to Work Together on Three Waters*. Wellington, Urban 2000 Conference.

Cayford, JK., 1999. *Water Issues – What Needs Legislating?* Auckland, AIC Conference.

Secondary and Tertiary Video Teaching Kits (examples)

Cayford, JK., 1994. *Sink to Sea*. Auckland, TVP and Greenpeace, 40 mins, 40 pgs.

Cayford, JK., 1993. *Mining and the Environment*. Auckland, Team Video Pacific and Coromandel Peninsula Watchdog, 35 mins video, 30 pgs.

Cayford, JK., 1990. *Disarming Arguments*. London, Team Video UK and Campaign for Nuclear Disarmament, 30 mins video, 35 pgs.

Cayford, JK., 1987. *Stress at Work*. London, Team Video UK and NALGO, 20 mins, 25 pgs.

Books

Cayford, JK., 1994. *The Waikato Pipeline: Is it really needed?* NZ, Life Centre Ltd. 38 pgs.

Cayford, JK., 1987. *Computer Media*. London, Comedia, 110 pgs.

Cayford, JK., 1985. *Speak Up!*. London, Comedia, 28 pgs.

Refereed Journal Articles

Cayford, JK., 2014. *The New Political Economy of Urban Planning in New Zealand: Redeveloping Princes Wharf on Auckland's Waterfront*. Journal of Urban Policy and Research (Preparing for submission and review).

Cayford, JK., 2012. *Appropriate Pacific Island Housing and Urban Design in South Auckland*. New Zealand Geographer (Submitted for review, currently under further research)

Cayford, JK., Fimple, W., 1976. *An investigation of low-energy proton on hydrogen collisions*. Journal of Physics B: Atomic and Molecular Physics Volume 9 Number 17.

Cayford, JK., Fimple, W., Unger, D., White, SP., 1974. *A finite-difference Newton-Raphson solution of the two-center electronic Schrödinger equation*. Journal of Computational Physics Volume 16, Issue 3, November, Pages 259-270.

Cayford, JK., Fimple, W., Unger, D., 1974. *A finite difference Newton-Raphson solution of the atomic Hartree-Fock problem*. J Computational Physics, Volume 15, Issue 1, Pages 81-97.

Blogs & Websites

www.watermagazine.com (1996-2004)

www.ecocitymagazine.com (1998-2004)

www.places4people.org.nz (2005-2010)

www.joelcayford.blogspot.com (2008-present)