Natural Sciences and Engineering Research Council of Canada | Conseil de recherches en sciences naturelles et en génie du Canada

FORM 100
Personal Data Form
PART I

Date: 2013/06/14

Family name	Given name	Initial(s) of all given names	Personal identification no. (PIN)
Kellett	Ronald	RW	Valid 389511

☐ I hold a faculty position at an eligible Canadian college (complete Appendices B1 and C)

☐ I do not or will not hold an academic appointment at a Canadian postsecondary institution

Place of employment other than a Canadian postsecondary Institution (give address in Appendix A)

APPOINTMENT AT A POSTSECONDARY INSTITUTION

Title of position: Professor

Department: Architecture, School of

Campus:

Canadian postsecondary institution: British Columbia

Tenured or tenure-track academic appointment: Yes [X] No [ ]

Part-time appointment [ ] Full-time appointment [X]

- For all non-tenured or non tenure-track academic appointment and Emeritus Professors, complete Appendices B & C
- For life-time Emeritus Professor and part-time positions, complete Appendix C

ACADEMIC BACKGROUND

Degree	Name of discipline	Institution	Country	Date yyyy/mm
Bachelor's	Environmental Studies	Manitoba	CANADA	1975 / 10
Master's	Architecture	University of Oregon	UNITED STATES	1979 / 06

TRAINING OF HIGHLY QUALIFIED PERSONNEL

Indicate the number of students, fellows and other research personnel that you:

	Currently		Over the past six years (excluding the current year)		
	Supervised	Co-supervised	Supervised	Co-supervised	Total
Undergraduate		1			1
Master's	1	3	11	7	22
Doctoral		3		1	4
Postdoctoral			1		1
Others	4		1		5
Total	5	7	13	8	33

Personal information collected on this form and appendices will be stored in the Personal Information Bank for the appropriate program.

PROTECTED WHEN COMPLETED

Version française disponible

Completed

Personal identification no. (PIN)	Family name
Valid 389511	Kellett

ACADEMIC, RESEARCH AND INDUSTRIAL EXPERIENCE (use one additional page if necessary)

Position held (begin with current)	Organization	Department	Period (yyyy/mm to yyyy/mm)
Professor	British Columbia	Architecture, School of	2004/07
Professor	University of Oregon	Architecture	2003/09 to 2004/06
Associate Vice Provost for Research	University of Oregon	Research and Graduate Studies	1993/07 to 1996/06
Associate Professor	University of Oregon	Architecture	1991/09 to 2003/06
Assistant Professor	University of Oregon	Architecture	1985/09 to 1991/06
Registered Architect	Bruno Freschi Architects, Vancouver		1983/11 to 1986/08
Intern Architect	Various private professional practices		1979/07 to 1983/10

PROTECTED WHEN COMPLETED

Personal identification no. (PIN)	Family name
Valid 389511	Kellett

RESEARCH SUPPORT

List all sources of support **(including NSERC grants and university start-up funds)** held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required.

Family name and initial(s) of applicant	Title of proposal, funding source and program, and time commitment (hours/month)	Amount per year	Years of tenure (yyyy)
a) Support held in the past 4 years			
Cynthia Girling and Ronald Kellett	Green infrastructure in Calgary's Mobility Corridors City of Calgary Contract research 30 hours/month	35,000(100%)	2008
Cynthia Girling and Ronald Kellett	Open space case studies for elementsDB - a web-based case study database Landscape Architecture Canada Foundation Research grants program 12 hours/month	10,000(100%)	2009
Ronald Kellett	Specification of indicators and selection methodology for a community demonstration project Canada Mortgage and Housing Corporation Contract research 30 hours/month	40,000(100%)	2009
Cynthia Girling and Ronald Kellett	Measured Visualizations of the Cambie Corridor City of Vancouver Contracted research 24 hours/month	40,000(100%)	2010

PROTECTED WHEN COMPLETED

Canada

Personal identification no. (PIN)	Family name
Valid 389511	Kellett

RESEARCH SUPPORT

Family name and initial(s) of applicant	Title of proposal, funding source and program, and time commitment (hours/month)	Amount per year	Years of tenure (yyyy)
List all sources of support **(including NSERC grants and university start-up funds)** held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required.			
a) Support held in the past 4 years			
Andreas Christen and 2 others	A LiDAR based, urban metabolism approach to neighbourhood scale energy and carbon emissions modeling Natural Resources Canada Contracted Research to CanMET 24 hours/month	23,500 (33%)	2010
b) Support currently held			
Cynthia Girling and Ronald Kellett	elementsDB: Engaging students with the environmental dimensions of urban design University of British Columbia Teaching and Learning Enhancement Fund	54,700 (80%) 65,360 (80%) 61,500(100%)	2010 2011 2012
Eric Miller and 9 others	Visualizing Urban Futures: Geomatics Decision Suport for Canadian Urban Regions GEOIDE Network and Neptis Foundation Targeted Strategic Investment Initiative 24 hours/month	100,000 (12%) 100,000 (12%)	2011 2012
Sheryl Staub-French and 4 others	IDEAS2.0: Integrative Data-Enabled Approaches to Sustainability across Scales NSERC Strategic Project Grants 25 hours/month	147,920 (20%) 156,670 (20%) 148,170 (20%)	2011 2012 2013

Personal identification no. (PIN)	Family name
Valid 389511	Kellett

RESEARCH SUPPORT

Family name and initial(s) of applicant	Title of proposal, funding source and program, and time commitment (hours/month)	Amount per year	Years of tenure (yyyy)
List all sources of support **(including NSERC grants and university start-up funds)** held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required.			
b) Support currently held			
Ronald Kellett, Cynthia Girling, Maged Senbel	Measured visualizations of urban form scenarios as a means to community engagement in planning for climate change Paciific Institute for Climate Solutions Social mobilization 32 hours/month	60,000 (80%) 40,000 (80%)	2011 2012

PROTECTED WHEN COMPLETED

Canada

Highly Qualified Personnel (HQP)

Provide personal data about the HQP that you currently, or over the past six years, have supervised or co-supervised.

Personal identification no. (PIN)	Family name
Valid 389511	Kellett

Name	Type of HQP Training and Status	Years Supervised or Co-supervised	Title of Project or Thesis	Present Position
Kevin Zhang	Master's (In Progress)	Supervised 2012 -	Walkability and transit oriented development	Research Assistant / Masters student
Laura Kozak	Master's (In Progress)	Co-supervised 2012 -	Open Source City	Masters student
Mesa Sherriff	Technician (In Progress)	Supervised 2012 -	Energy and urban form	Research assistant / Masters student
(Name withheld)	Undergraduate (In Progress)	Co-supervised 2012 -	No undergraduate thesis required	Research assistant / undergraduate student
Paula Leyton	Master's (In Progress)	Co-supervised 2011 -	Open space networks	Masters student
(Name withheld)	Technician (In Progress)	Supervised 2011 -	Urban form modelling	Research assistant
(Name withheld)	Master's (In Progress)	Co-supervised 2011 -	Regenerative sustainability frameworks	Masters student in architecture
Church, Sarah	Doctoral (Not Completed)	Co-supervised 2010 -	Urban environmental stewardship	PhD student
Su, Tao	Master's (Completed)	Co-supervised 2010 -	Multi-display interactive neighbourhood planning	Computer programmer
Cavens, Duncan	Postdoctoral (Completed)	Supervised 2009 -	Transportation modeling for climate change	Modeling consultant
Miller, Nicole	Doctoral (In Progress)	Co-supervised 2008 -	Evaluating urban patterns for energy and GHG performance	Doctoral Fellow Pacific Institute for Climate Solutions
Moore, Jennie	Doctoral (In Progress)	Co-supervised 2008 -	Measuring potential for ecological sustainability	PhD student and faculty, BCIT
Salter, Jon	Doctoral (In Progress)	Co-supervised 2008 -	Mental models of community energy and participatory planning	PhD student / research associate
(Name withheld)	Master's (Completed)	Co-supervised 2011 - 2012	Urban streetscapes	Intern landscape architect
(Name withheld)	Master's (Completed)	Co-supervised 2011 - 2012	Urban form and walkability	Intern landscape architect
Nicholas Sinkewicz	Technician (Completed)	Supervised 2009 - 2012	Interactive gaming and climate change	Research assistant / Masters student
van der Laan, Michael	Master's (Completed)	Co-supervised 2009 - 2011	Urban morphology, building typology and carbon emissions	Research Associate
(Name withheld)	Master's (Completed)	Co-supervised 2009 - 2010	Touchtable interfaces for collaboration in urban design	Computer programmer
Olchovski, Inna	Master's (Completed)	Supervised 2009 - 2010	Urban industrial landscape reclamation	Landscape Architect, Toronto
Richardson, James	Master's (Completed)	Supervised 2009 - 2010	Foodshed sustainability Vancouver	PhD student, New Zealand

Highly Qualified Personnel (HQP)

Provide personal data about the HQP that you currently, or over the past six years, have supervised or co-supervised.

Personal identification no. (PIN)	Family name
Valid 389511	Kellett

Name	Type of HQP Training and Status	Years Supervised or Co-supervised	Title of Project or Thesis	Present Position
Schutrumpf, Caroline	Master's (Completed)	Co-supervised 2009 - 2010	Social landscapes and community infrastructure	Landscape Architect
(Name withheld)	Technician (Completed)	Supervised 2009 - 2010	Employed as research assistant only	Intern Landscape Architect, Vancouver
Snyder, Elsa	Technician (Completed)	Supervised 2009 - 2010	Employed as research assistant only	Architecture student
Vogt, Megan	Master's (Completed)	Co-supervised 2009 - 2010	Community and public realm design	Intern Landscape Architect, Vancouver
(Name withheld)	Master's (Completed)	Co-supervised 2008 - 2009	Urban form and carbon emissions	PhD student, Vancouver
Miller, Courtney	Technician (Completed)	Supervised 2008 - 2009	Employed as research assistant	Urban planner, Richmond
(Name withheld)	Master's (Completed)	Co-supervised 2008 - 2009	Architecture for urban agriculture	Architect, Pittsburgh
(Name withheld)	Master's (Completed)	Co-supervised 2007 - 2008	Infill and conversion of large scale urban retail	Planning technician, Vancouver
Maria Galdon	Master's (Completed)	Supervised 2007 - 2008	Green infrastructure and public realm retrofits in streets	Landscape Architect, Calgary
(Name withheld)	Master's (Completed)	Co-supervised 2007 - 2008	Urban street design	Landscape Architect
Semeniuk, Xenia	Master's (Completed)	Co-supervised 2007 - 2008	Neighbourhood based waste diversion infrastructure	Landscape Architect, Kelowna
(Name withheld)	Master's (Completed)	Co-supervised 2007 - 2008	Reconnecting habitat along urban stream corridors	Landscape Architect, Vancouver
Miller, Nicole	Master's (Completed)	Co-supervised 2005 - 2008	Carbon neutrality in suburban development patterns	PhD student
(Name withheld)	Master's (Completed)	Co-supervised 2006 - 2007	Industrial landscape reclamation, Iceland	Landscape Architect, Iceland
Laurenz, Jon	Master's (Completed)	Supervised 2006 - 2007	Green (living) facades in architecture	Architect, Spain
Miller, Nicole	Technician (Completed)	Supervised 2006 - 2007	Employed as research assistant	PhD student
(Name withheld)	Master's (Completed)	Supervised 2006 - 2007	Rainwater harvesting in public open space, India	Landscape Architect, Vancouver

RONALD KELLETT *supplement to NSERC form 100_120929*

I am a Professor of Landscape Architecture in the School of Architecture + Landscape Architecture at the University of British Columbia where I teach lecture courses and design studios, supervise graduate students (in professional degree and advanced study programs) and conduct research in the environmental and sustainability dimensions of urban form. Like many design research faculty in professional schools of architecture and landscape architecture, my research contributions are applied, interdisciplinary, collaborative, and frequently commissioned or contracted. Some have been sponsored through competitive grants; some through contract research for public sector clients such as cities and municipalities; some through contract research and consulting to private sector design professionals and developers. The publication channels for the products of that work include traditional academic peer review channels (indicated by an R in the lists below and professional technical reports to research sponsors. Others have resulted in commissioned publications (planning and design guidelines, for example) or built work.

1. **Most Significant Research Contributions** Since the mid-1990s, I have directed or co-directed a design decision research lab to develop processes and tools that improve the means through which students, professionals, policy makers and the public are able to consider issues and metrics of energy, environment and climate change in the collaborative and public engagement processes of urban planning, design and architecture. The results have contributed to the development of environment- and sustainability-oriented urban design knowledge, practices, prototypes, design and teaching tools, in the following areas:

   1.1 Environment and urban form: Some of my work pursues methods of visualizing and measuring the presence and magnitude of broader environmental themes and sustainability issues (land, water, energy, mobility, habitat, for example) in the physical, spatial dimensions and patterns of urban form.

   1.2 Decision support tools for urban design: Since 1995, I have been developing computer-based design decision support tools to automate, integrate and communicate tasks of information management, visualization, measurement and comparison of urban planning and design alternatives. These decision support processes and tools for community planning and design share a goal of improving the interface between public policy, planning and urban design process and modeling technologies. My work in this area has been shaped by two themes – **Visualization** and **Spatial indicators and metrics**

   Visualization tools for urban design: This work develops data- and visually-rich tools and methods to fit within public planning processes and augment decision-makers' ability to visualize, remember, analyze, measure, compare, and communicate land use planning policy and implementation alternatives The core asset upon which these tools are built is *elements**db*** (public version viewable at http://elementsdb.sala.ubc.ca*),* a web-accessible resource of field-measured, case-based examples of urban land uses, is the "visualization and data engine" of an urban design and public engagement methodology used throughout my work. This database was initiated in 1998 and developed over the past 14 years. It was completely redesigned in 2006 (the framework for the current version) with a 2005 Canada Foundation for Innovation Infrastructure Grant and has been continuously expanded and refined since. Most recently I have expanded these tools with new urban design measurement, visualization and collaboration functionality (to remote sensing data — with co-applicants Christen and Coops, touchtable interfaces and multi-display technologies –with computer science researcher and GRAND National Centers of Excellence

(http://www.grand-nce.ca) scientific director and co-PI on a related NSERC Strategic Project, Kellogg Booth as well as interactive land use, travel and building energy demand calculation interfaces with colleagues in Landscape Architecture (Girling) Civil Engineering (Staub-French) Computer Science(Pottinger), Planning (Senbel) and Architecture (Johnson) for NSERC, the Pacific Institute for Climate Solutions and other project sponsors

Spatial indicators and metrics for urban design: Accompanying the Visualization work has been parallel effort to improve the measures and metrics against which visualizations can be measured, compared and evaluated. I have developed set of spatial indicators and measurement methodologies related to public infrastructure (streets and utilities etc.) and sustainability in community development.

Taken together, my visualization and indicators research have enabled more accessible means to visualize and measure urban planning and design alternatives and their anticipated performance quickly and iteratively from the earliest phases when the need and opportunity is greatest to inform and influence decision-making. The challenge has been that early design phase alternatives are typically too loosely defined or coarse grained for conventional modeling approaches. To overcome this I have developed a case-based methodology in which simplified models of similar replicable urban form elements (based in elementsdb) become visual, spatial, measurable proxies for those 'yet to be designed'. This method augments the fluid iteration of alternatives typical of interactive, integrative design with 'behind the scenes' quantitative attributes and data from which anticipated performance metrics can be simulated. The results enable better visibility and understanding of the variables, tradeoffs and consequences embedded in urban planning and design alternatives. Related contract research and consulting projects have applied, advanced and refined these methodologies in partnership with cities, municipalities and private sector professionals.

1.3 Energy, carbon emissions and urban form: Combining visualization and spatial indicators work has in turn enabled capacity to measure and visualize energy and related carbon emissions in the future urban form attributes contemplated in urban planning and design processes. Work in this area illuminates relationships between land use, settlement pattern, building type, mobility and infrastructure alternatives and energy and carbon intensity. These methods have been applied to urban energy projects and have contributed to the development of prototype neighbourhood-scale energy and carbon modeling applications.

1.4 Environmentally oriented urban design prototypes: Projects at the most 'applied' end of my work spectrum have tested many of the above research contributions in the field, typically in collaborations, occasionally with other professionals in private practice.

SELECTED REPORTS AND PUBLICATIONS RELATED TO RESEARCH CONTRIBUTIONS: in reverse chronological order [square brackets refer to research contributions categories above, 1.1, 1.2 etc.]

R Maged Senbel, Cynthia Girling, James T. White, Ronald Kellett and Patrick Chan, 'Precedents reconceived: Urban design learning catalysed through data-rich 3-d digital models', *Design Studies*, in press, 2012. [1.2]

R Andreas Christen, Michael van der Laan, Ronald Kellett, Thoreau Rory Tooke, 'Context-sensitive scaling of energy use simulations from individual buildings to cities', ICUC-8 – 8th International Conference on Urban Climate, Dublin, 2012. [1.3]

R Ronald Kellett, Andreas Christen, Nicholas Coops, Michael van der Laan, Ben Crawford, Thoreau Rory Tooke, Inna Olchovski, 'A Systems Approach to Carbon Cycling and Emissions Modelling at an Urban Neighbourhood Scale', Accepted for publication by *Landscape and Urban Planning*, (for publication in 2013). [1.3]

R Michael van der Laan, Andreas Christen, Ronald Kellett, Thoreau Rory Tooke,'Urban morphology and building typology: Carbon emissions estimates through LiDAR', International Seminar on Urban Form: Urban Morphology and the post-carbon city, Montreal, 2011. [1.3]

R Maged Senbel, Cynthia Girling, Ronald Kellett, James T. White, 'Evaluating a new media tool for planning and design students', Council of Educators in Landscape Architecture: Urban Nature, Los Angeles, 2011 [1.2]

R A.Christen, N. Coops, B. Crawford, R. Kellett, K. Liss, T. Oke, I. Olchovski, R. Tooke, M. van der Laan, J. Voogt, "Comparing an urban metabolism model to long-term CO2 eddy co-variance measurements" *Proceedings of the 9th Symposium on the Urban Environment*, Electronic preprint #172089, August 2010. [1.3]

R Thoreau Rory Tooke, Michael van der Laan, Nicholas Coops, Andreas Christen and Ronald Kellett, 'Classification of Residential Building Architectural Typologies Using LiDAR' to 'JURSE 2011 Joint Urban Remote Sensing Event', Munich. 2010. [1.3]

R Andreas Christen, Nicholas Coops, Ben Crawford, Eli Heyman, Ron Kellett, Kate Liss, Time R. Oke, Inna Olchovski, Rory Tooke, Michael van der Laan, James A. Voogt, 'Validating modeled carbon dioxide emissions against long-term eddy co-variance measurements at an urban neighborhood scale', American Geophysical Union 2010 Annual Fall Meeting, San Francisco. 2010. [1.3]

Andreas Christen, Nicholas Coops, Ronald Kellett, with Ben Crawford, Michael van der Laan, Rory Tooke and Inna Olchovski, "A LiDAR-based Urban Metabolism Approach to Neighbourhood Scale Energy and Carbon Emissions Modeling" for CanMetEnergy division of Natural Resources Canada, August 2010. (technical report) [1.2, 1.3]

R Jennifer Fernquist, Kellogg S. Booth, Alan K. Mackworth, Ronald Kellett, Cynthia Girling, "Using Multi-Touch Tabletops to Create and Compare Neighbourhood Designs that Satisfy Constraints", for the Second International Workshop on Constraint Reasoning and Optimization for Computational Sustainability, Bologna, Italy, June 2010. [1.2]

R Nicole Miller, Duncan Cavens, Patrick Condon and Ronald Kellett. "Policy, Urban Form and Tools for Measuring and Managing Green House Gas Emissions: The North American Problem," *University of Colorado Law Review*, Vol. 80, No. 4, p. 977-998. Fall 2009. [1.2, 1.3]

Ronald Kellett, "Sustainability Indicators for Computer-based Tools in Community Design," for External Research Program, Canada Mortgage and Housing Corporation, September 2009. (technical report) [1.2]

Ronald Kellett, Sarah Fryer and Isabel Budke "Specification of Indicators and Selection Methodology for a Community Demonstration Project," for EQuilibrium Communities Program, Canada Mortgage and Housing Corporation, April 2009. (technical report) [1.2, 1.4]

Opsis Architecture LLP, Patrick Condon, Ronald Kellett, Tony Nielsen, 'Development Standards and Guidelines for Fairview. Salem Oregon' for Sustainable Fairview Inc, (technical report) September 2010. [1.1, 1.4]

R Armando Carbonell, Patrick Condon and Ronald Kellett, "Policy, Urban Form and Tools for Measuring and Managing Green House Gas Emissions: The North American Problem," Congress for a European Urbanism Conference on Climate Change and Urban Design. Oslo, September 2008. [1.2, 1.3]

R Ronald Kellett, Duncan Cavens, Nicole Miller and John Salter. "Energy, Sustainability and Decision Support to Charrette-based Urban Design' Congress for European Urbanism Conference on Climate Change and Urban Design, Oslo in September 2008. [1.2, 1.3]

Girling, Cynthia, Maria Galdon, Lara Davis, Ronald Kellett, "Green infrastructure in Calgary's mobility corridors," for Plan IT Calgary, City of Calgary. December 2008. [1.1, 1.4]

Ronald Kellett, Duncan Cavens, Nicole Miller, Elisa Campbell and Wil Mayhew "Decision support tools in a Sustainable Urban Neighbourhood," for Federation of Canadian Municipalities, September 2007. (technical report) [1.1, 1.2, 1.4]

Duncan Cavens, Ronald Kellett, Nicole Miller, Jon Salter "Integrating energy and urban design at a neighbourhood scale in Emerald Hills Urban Village, a Sustainable Urban Neighbourhood pilot project," for Natural Resources Canada, July 2007. (technical report) [1.2, 1.3, 1.4]

R Girling, Cynthia, Ronald Kellett and Shana Johnstone, "Informing design for participation in neighbourhood-scale planning," *Integrated Assessment*, Vol. 6, No. 4 December, 2006. [1.2]

Ronald Kellett and Erick Villagomez, 'Housing Types and Residential Development Standards for Pringle Creek' for Sustainable Fairview Inc, (technical report). [1.1, 1.4]

R Girling, Cynthia and Ronald Kellett, *Skinny Streets and Green Neighborhoods: Design for environment and community,* Island Press, Washington D.C., 2005. (Book, 175 pages). [1.1]

R Girling, Cynthia and Ronald Kellett, 'The Changing Morphology of the North American Green Neighbourhood', Annual Meeting of the Canadian Society of Landscape Architects, Winnipeg 2005. [1.1]

R Girling, Cynthia and Ronald Kellett, 'Evolving Relationships of Green and Grey in the American Green Neighbourhood', Annual Meeting of the Council of Educators in Landscape Architecture, Athens, Georgia, 2005. [1.1]

R Girling, Cynthia and Ronald Kellett, 'Comparing Stormwater Impacts in Three Neighborhood Plan Types', Landscape Journal, Volume 21, Number 1, 2003, pp. 100-109 [1.1, 1.2]

R Girling, Cynthia and Ronald Kellett, 'Green Neighborhoods at the Edge', Proceedings of Landscapes on the Edge, International Federation of Landscape Architects World Congress, Vancouver, 2003. [1.1]

Girling, Cynthia and Ronald Kellett with Sasaki Walker Associates, 'Design for Wetlands in the Royal Avenue Specific Plan', City of Eugene and US Army Corps of Engineers (technical report) [1.1, 1.4]

Girling, Cynthia and Ronald Kellett with URS Corporation, 'Design for Stormwater in the Royal Avenue Specific Plan', City of Eugene (technical report) [1.1, 1.4]

Green Neighborhoods: Planning and Design Guidelines for Air, Water and Urban Forest Quality with Cynthia Girling, Jacqueline Rochefort and Christine Roe for the U.S. Department of Agriculture in 2000 (technical report). [1.1]

Cynthia Girling and Ronald Kellett, 'Measuring Stormwater Impacts of Different Neighborhood Development Patterns' for US Geological Survey (Technical report) [1.1, 1.2]

R Girling, Cynthia, Ronald Kellett, "Visualization and decision support tools for community planning," *Research and Architecture Les Cahiers de l'enseignement de l'architecture* European Association for Architectural Education, No.9, Paris, 2000, pp.259-268. [1.2]

Measuring Infrastructure in New Community Development, a 'smart growth' design tool methodology for the Oregon Departments of Land Conservation and Development, and Transportation, 1999 (technical report) [1.1, 1.2]

Net Energy Communities, summary of a 2-year national research project I directed to develop computer-based tool prototypes to engage the public in energy decision-making at neighborhood and community scales for the Office of Building Technology, US Department of Energy, 1998 (technical report). [1.1, 1.2, 1.3]

R Kellett, Ronald, Cynthia Girling, "Informing public participation in neighborhood scale planning and design," *Proceedings, Design Decision Support Systems in Architecture and Urban Planning 4th Annual Conference*, Maastrict, Netherlands July 26-29 1998. [1.2]

Steps to Affordable and Energy Efficient Housing, a summary of my design research contributions to a 5-year, multi-million dollar national research program with large interdisciplinary research team in architecture, industrial engineering and energy efficiency technologies from the Center for Housing Innovation at the University of Oregon, Industrial Engineering at the University of Central Florida and the Florida Solar Energy Center, for the Energy Efficient Industrialized Housing Research Program, Office of Building Technology, US Department of Energy, 1995 (technical report) [1.2, 1.3, 1.4]