



Preliminary Conference Guide

2017 API Conference | Nimble Responses, Rapid Innovation

September 27-29, 2017

Rodd Charlottetown Hotel | Charlottetown, PE

Welcome to the 2017 API Conference!

On behalf of the Atlantic Planners Institute (API), the PEI Association of Planners (PEIAP) and the 2017 API Conference Organizing Committee, we welcome all of you to this year's conference: **"Nimble Responses, Rapid Innovation."**

This conference is about sharing experience, ideas and challenges to create strengths in the planning profession as it responds to changes that its support systems, more often than not, were never designed to accommodate. Trends in at least the global and local economy and environment are making it evident that the health and sustainability of both urban and rural communities depend on the ability of people in relevant roles being able to identify and gauge unexpected information, anticipate its impacts, and resolve concerns they identify very quickly.

Professional planners access, develop and participate in processes meant to respect and protect the public interest and the physical realm every day. Examining the appropriateness of planning approaches that have been in place over time and ensuring that they are flexible enough to respond to new situations in the future is integral to the profession's continued ability to serve its purpose.

Technology, and innovation that has occurred as a result of or alongside technological advances, also presents planners with very real and powerful opportunities to create efficiencies and dispel shortcomings in planning regimes that exist within and across the interface of the public and private sectors. This conference aims to create a fuller understanding of the contexts that are creating a need for innovation in the planning profession while showcasing instances of planning approaches that stray from the realm of convention into that of experiment and, in so doing, offer solutions to problems that seem unrelated at first glance.

The conference is structured to allow for big picture conversations around economic, environmental, development and infrastructure related themes to preface more focused discussions about relevant tools and strategies with which planners work or that they are in the process of adapting so that they may respond to new needs. We trust that you will find some value in both these aspects of the conference structure and hope that the time you spend at the conference will contribute to the effectiveness and efficiency of planning responses that create a higher quality of life for everyone that planning decisions affect.

Thank you for taking the time to participate in Nimble Responses, Rapid Innovation. We hope you enjoy your time in Charlottetown and on the Island as the conference unfolds.

Janice Harper, MCIP | Chair, 2017 Atlantic Planners Institute Conference Chair
Samantha Murphy, MCIP | President, Atlantic Planners Institute
Alex Forbes, MCIP | President, Prince Edward Island Association of Planners

Conference Overview

Wednesday, September 27, 2017

Golf Fox Meadows Golf Course	12:00 - 6:00
Registration Hotel Lobby	2:30 - 5:00
Optional Workshop [2.5LU; \$45] Victorian Room "Social Media and Rapid Innovation: How Not to Get Fired" <i>Dr. Bonnie Stewart, University of Prince Edward Island</i>	2:30 - 5:00
Opening Reception Delta Hotel, 18 Queen Street <i>Snacks & Refreshment to be Provided</i>	7:00 - 9:00
Optional Tour [0.5LU; \$15] Delta Hotel, 18 Queen Street "Ghostly Realm Tour" <i>Confederation Players of Charlottetown</i>	9:00 - 9:30
Hospitality Suite	9:30 - 12:00

Thursday, September 28, 2017

Registration Hotel Lobby	7:30 - 9:00
Breakfast & API AGM [1.0LU] Georgian Room <i>Michelle MacDonald, API Executive Director Samantha Murphy, API President</i>	7:30 - 8:30
Welcoming Remarks Georgian Room <i>Janice Harper, 2017 API Conference Chair Mayor Clifford Lee, City of Charlottetown Minister Robert Mitchell, Communities, Land and Environment, Province of Prince Edward Island Other Invited Dignitaries</i>	9:00 - 9:20
Keynote Address [1.0LU] Georgian Room "Apps and Traps: Politics, Planning and Community Building in the Digital Age" <i>Mayor Jeff Lehman, City of Barrie</i>	9:20 - 10:30
Refreshment Break	10:30 - 10:50
Panel Discussion [1.0LU] Georgian Room "The Local Economy, Culture, and Lessons for Planners" <i>Dr. Bonnie Stewart, University of Prince Edward Island Doug Keefe, Interim CEO, Startup Zone</i>	10:50 - 12:00

<p>Sean Aylward, Owner, The Humble Barber Facilitated by Mayor Jeff Lehman, City of Barrie</p>	
<p>Lunch & CMHC Presentation [1.0LU] Georgian Room "Housing in Atlantic Canada: Challenges and Opportunities for Planners" Sarena Teakles, Canada Mortgage & Housing Corporation</p>	<p>12:00 - 1:20</p>
<p>Concurrent Session 1 [1.0LU] 2nd Floor</p>	
<p>1a) "Innovation in Community Engagement" Richmond Room Leanne Jennings, Municipality of the County of Kings Lesley Cabott, Stantec Consulting Ltd. Christine Jeans, Stantec Consulting Ltd.</p>	
<p>1b) "Green Innovation in Community Development & Planning" Grafton Room Mike Thususka, City of Summerside Stephen Stone, Dillon Consulting Ltd. Julie DiCicco, Dillon Consulting Ltd. Representative, Kingsclear First Nation</p>	
<p>1c) "Building a Better Bylaw" Kent Room Alex Forbes, City of Charlottetown Steffen Käubler, UPLAND Urban Planning + Design Inc.</p>	
<p>Refreshment Break</p>	
	<p>2:30 - 2:50</p>
<p>Concurrent Session 2 [1.0LU] 2nd Floor</p>	
	<p>2:50 - 4:00</p>
<p>2a) "Innovation & Legal Cases for Planners" Richmond Room André Daigle, Droit JURIS Law</p>	
<p>2b) "Spatial Planning and Policy Development" Grafton Room Alan Howell, Nova Scotia Department of Municipal Affairs Erin Stapleton, Stapleton Environmental Consulting</p>	
<p>2c) "Shorter Roads Go a Long Way" Kent Room Paul Dec, Eastern District Planning Commission Tristan Cleveland, Metro Halifax & Ecology Action Centre</p>	
<p>Closing Presentation [1.0LU] Georgian Room "Artificial Intelligence & Big Data Implications for Planners" Rob LeBlanc, Ekistics Plan + Design Bob Shand, Industrial Research Assistance Program, National Research Council Canada</p>	<p>4:00 - 5:00</p>
<p>Dalhousie University Alumni Reception Hopyard, 15 Kent Street</p>	
	<p>5:30 - 6:30</p>
<p>Reception w/ Cash Bar Georgian Room</p>	
	<p>6:15 - 7:30</p>
<p>Awards, Dinner & Murder Mystery Georgian Room</p>	
	<p>7:30 - 10:00</p>

Hospitality Suite

9:30 - 12:00

Friday, September 29, 2017

Registration | Hotel Lobby 7:30 - 8:30

Breakfast & API Information Session [0.5LU] | Georgian Room 7:30 - 8:30
Michelle MacDonald, API Executive Director
Janice Harper, 2017 API Conference Chair

Welcoming Remarks | Georgian Room 8:30 - 8:50
The Honourable Diane F. Griffin, Senator of Prince Edward Island

Keynote Address [1.0LU] | Georgian Room 8:50 - 10:00
"Of Ubers and Tubers – The Future of Transportation"
Dr. Clarence Woudsma, University of Waterloo

Refreshment Break 10:00 - 10:20

Concurrent Session 3 [1.0LU] | 2nd Floor 10:20 - 11:20

3a) "Nimble & Rapid Freight Planning? Collisions, Freight and the Livable Community" | Richmond Room
Dr. Clarence Woudsma, University of Waterloo

3b) "Back to Basics: Working with Nature to Better Inform Land Use Decisions" | Grafton Room
Adam Cheeseman, Nature NB

3c) "Limited Access: A Workshop and Discussion on Open Data and the Role of Planners" | Kent Room
Ross Grant, TEAL Architects + Planners
Dave Espeseth, TEAL Architects + Planners

Keynote Address [1.0LU] | Georgian Room 11:20 - 12:20
"Environmental Tools and Innovation on Prince Edward Island"
Dr. Adam Fenech, University of Prince Edward Island

Closing Remarks | Georgian Room 12:20 - 12:30
Alex Forbes, City of Charlottetown

Optional Tours | Hotel Lobby 1:00

"Greenwich Provincial Park Bus Tour" [3.0LU; \$50] 1:00 - 4:00
Hosted by Dr. Adam Fenech, University of Prince Edward Island
Optional Box Lunch Available (\$)

"500 Lot Area Heritage & Innovation Walking Tour" [2.5LU; \$20]

1:00 - 3:30

*Natalie Munn, City of Charlottetown
Shaman Ferraro, Atlantic Green Contractors
Josh Silver, Holland College
Representatives, Government of Canada*

Unless an alternate civic address is provided, all events will be held at the Rodd Charlottetown Hotel, 75 Kent Street.

Assigned learning credits are listed in the overview above (i.e., [1.0LU]). The sessions will appear on the drop down menu on the CIP website to assist members in recording Continuous Professional Learning units.

Session Details

Wednesday, September 27, 2017

Optional Workshop [2.5LU; \$45] | Victorian Room 2:30 - 5:00
"Social Media and Rapid Innovation: How Not to Get Fired"
Dr. Bonnie Stewart, University of Prince Edward Island

Open online spaces like Twitter don't require credentials as a professional price of admission, but do demand the creation and performance of public, networked identities. In a world where digital spaces can be unpredictable at best, how can professionals extend what they do into the online realm, without bringing online drama into their work lives? How can social media be part of a thriving professional identity?

In this session, Bonnie will lead participants through ways of thinking about professional participation in a world of social media and information abundance, and how to meet the challenges raised. Bonnie Stewart is an educator and social media researcher fascinated by who we are when we're online. Her detailed biography can be accessed in the presenter profiles section of this program guide.

Opening Reception | Delta Hotel, 18 Queen Street 7:00 - 9:00
Snacks & Refreshment to be Provided

Join us for the opening reception at the Delta, located at the bottom of Queen St. Reconnect with colleagues from around the region while enjoying the view of Charlottetown's waterfront.

Optional Tour [0.5LU; \$15] | Delta Hotel, 18 Queen Street 9:00 - 9:30
"Ghostly Realm Tour"
Confederation Players of Charlottetown

The tour will begin by the Delta and will be guided by a Confederation Player in character, taking the group through parts of Old Charlottetown where ghost stories, murders, and various other spooky things took place. It will explore the superstitious culture of ol' PEI, while seeing some of the best sites along the waterfront. The tour ends at the Kirk of St. James on Pownal Street, just steps away from the conference hotel.

Thursday, September 28, 2017

Keynote Address [1.0LU] | Georgian Room

9:20 -10:30

"Apps and Traps: Politics, Planning and Community Building in the Digital Age"

Mayor Jeff Lehman, City of Barrie

Technology is fundamentally disrupting traditional service models and transforming community engagement. But technology is a tool, not a resource, and leveraging community and economic capacity is a real opportunity. Jeff Lehman will speak about the promise and pitfalls of technology in community planning, economic development, and municipal service delivery - and as Mayor of a fast-growing city in rural Central Ontario, tell a few stories of painful failure and valuable successes along the way.

Panel Discussion [1.0LU] | Georgian Room

10:50 -12:00

"The Local Economy, Culture, and Lessons for Planners"

Dr. Bonnie Stewart, University of Prince Edward Island

Doug Keefe, Interim CEO, Startup Zone

Sean Aylward, Owner, The Humble Barber

Facilitated by Mayor Jeff Lehman, City of Barrie

This session explores current changes in our economy, looking at shifts in how entrepreneurs use space and experience their communities. The three panelists will provide insight in the flexible use of space, both in setting up new businesses and in providing entrepreneurs with space to get their ideas off the ground. The discussion will include a focus on how data and emerging forms of communication and technology allow the cultural sector and artists to take on a new role in community building.

Lunch Presentation [1.0LU] | Georgian Room

12:00 -1:20

"Housing in Atlantic Canada: Challenges and Opportunities for Planners"

Sarena Teakles, Canada Mortgage & Housing Corporation

The release of Census 2016 data confirms the commonly held knowledge that Atlantic Canada is rapidly greying. Looking ahead, it is possible that Atlantic Canada could find future population growth challenging if current migratory trends persist. But what does this mean for housing?

To answer this question, we first need to understand what is happening within the housing market today and then ask how these decisions will fit with the various demographic, migratory, and urbanization trends of tomorrow. This session will use a combination of CMHC research and examples from various urban centres across Atlantic Canada to showcase how the future will hold both challenges and opportunities for planners.

1a) “Innovation in Community Engagement” | Richmond Room

Leanne Jennings, Municipality of the County of Kings
Lesley Cabott, Stantec Consulting Ltd.
Christine Jeans, Stantec Consulting Ltd.

Leanne Jennings | Setting the Stage for Successful Community Engagement

It is no longer enough to just check a box, meet the minimum legislative requirements, or make decisions in a vacuum. Today, municipalities need to ensure quality, meaningful community engagement as the public wants to be involved in decisions that impact their lives and their communities.

This presentation will explore the practical aspects of community engagement through the lens of the Municipality of Kings County’s Community Engagement Strategy and will shed light on how you can develop your own. Our strategy, along with lessons learned that have made us more successful, will be shared to help you develop staff capacity, build community trust and create public buy-in.

Lesley Cabott & Christine Jeans | A Week To Work It Out

Consultation processes typically take time. Series of meetings spread over a year or more are normal. While it is important to take the time to consider issues and determine solutions, we have questioned whether extended lulls between consultation events are truly effective. The time citizens have to devote to a plan review or similar community issue is limited. As time passes many forget earlier discussions and lose focus on the point of the process.

In response, Stantec has recently developed and applied a “Consultation Program in a Week” approach that we have found effective not only to save time and costs, but also to enhance the quality of engagement. We concentrate consultation in a single week, in which our planners meet with community members, staff, and council. We normally meet twice with the public and close by meeting with the local council. Over a condensed timeframe we complete critical components of our research, our consultation responsibilities, and the components of our project deliverables.

The benefits of the “Consultation Program in a Week” approach:

- **Deeper Understanding:** Weeklong immersion improves our understanding of the community, improving the plan along with its form, structure, and design.
- **Builds Trust:** Opening shop in the community facilitates sustained interaction between our planners and community members building relationships that are critical to our understanding.
- **Quick Feedback Loop:** Within days, residents see the results of their input and ideas creating positive feedback and empowerment.

- **Focus on People and Quality Products:** We focus on engagement of the community instead of a preoccupation with the presentation of polished products before appropriate understanding is achieved.

We have used the approach successfully for plan reviews in the Towns of Montague, PE, and St. Alban's NL, and the Community of Brudenell, PE. Most recently, we applied similar methodology for our work on the Feasibility Study to assess municipal reorganization options for Wabush and Labrador City, NL. For each project, Stantec created a blog site to describe the project and announce consultation events. For the plan reviews, Stantec used the first meeting to establish issues and reported them online overnight. The following evening, we proposed potential solutions and reviewed them with interested citizens. Following the second meeting, we reported outcomes online and then met with the local council to discuss suggested responses to public input. We then prepared and presented a report to council summarizing recommended municipal plan and bylaw amendments. Formal plan preparation takes place separately with the benefit of well-documented public input. The completed planning documents are then presented to the public through additional consultation where it is deemed necessary and as required by applicable legislation.

This approach blends traditional engagement with current innovative communication tools, including blogging and online surveys, as well as social media platforms, such as Facebook, Instagram and Twitter. We will discuss how the process is direct and open, saving on costs but more importantly, how it increases public comprehension, while providing rapid delivery of our products to our clients.

1b) "Green Innovation in Community Development & Planning" | Grafton Room

Mike Thususka, City of Summerside

Stephen Stone, Dillon Consulting Ltd.

Julie DiCicco, Dillon Consulting Ltd.

Representative, Kingsclear First Nation

Mike Thususka | Growing the Green Economy through Innovation

This presentation will focus on growing the green economy and creating business opportunities through innovation. The City of Summerside will share insights into how the municipality has leveraged its key community assets specifically centred around a municipally owned electric utility to create business opportunities, attract investment and advance the green energy footprint both on a macro and micro scale in the community.

Stephen Stone, Julie DiCicco & a Representative from Kingsclear First Nation | A Case Study in Climate Change Vulnerability Assessment and Adaptation Planning: How Municipalities Can Quantifiably Determine Infrastructure Risk to Inform Policy

For this presentation, representatives from Dillon Consulting Limited and Kingsclear First Nation will present a case study on a recent project: Kingsclear First Nation Climate Change Vulnerability Assessment and Adaptation Plan. This project involved an innovative collaborative approach bridging the gap between

planning and engineering to produce a quantifiable vulnerability assessment of community infrastructure and services, while resulting in an adaptation plan that focused on two categories: 1) physical measures (engineered outcomes) and policy measures to be implemented through community plans, municipal plans, land use and zoning by-laws, among others. To determine infrastructure risk to climate change, the project team customized Engineer Canada's Public Infrastructure Engineering Vulnerability Committee (PIEVC) protocol to apply to an entire community, a first in Canada. This presentation will be useful for planning practitioners in small municipalities who work collaboratively with their public works department and are interested in a framework to assess and plan for Climate Change at the local level and identifying funding mechanisms.

Dillon Consulting Limited was retained by Kingsclear First Nation (KFN) to complete a climate change vulnerability assessment and adaptation plan for the community. The purpose was to identify infrastructure components and services in the community that are vulnerable to climate change, and to develop strategic adaptation measures that incorporate capacity development within the community. The project team reviewed different vulnerability assessment methodologies before choosing the protocol developed by Engineer Canada's Public Infrastructure Engineering Vulnerability Committee (PIEVC).

The PIEVC framework has been used in Canada and internationally to conduct vulnerability assessment of individual infrastructure projects. In order to conduct a high-level, community-wide assessment, the project team customized the PIEVC protocol and incorporated additional elements to tailor the assessment for an entire community. This included incorporating community services as a measurable component, and modifying specific PIEVC protocol variables to apply to the community, and incorporating traditional knowledge elements to confirm the Western Science climate change data. This was the first community-wide vulnerability assessment conducted using the protocol, as well as one of the only PIEVC assessments completed on infrastructure in an Indigenous community.

The vulnerability assessment identified several infrastructure and service components that may be negatively impacted by climate change. Adaptation options were identified for each climate- infrastructure or climate-service interaction that resulted in a high or moderate risk through an interactive workshop. The adaptation options identified were divided into physical and policy measures. Physical measures in the context of KFN are contingent upon funding availability as they represent physical alterations or additions to the relevant infrastructure component. Policy measures involve local policy/program development and monitoring that help mitigate future losses that may be caused by climate change effects.

1c) "Building a Better Bylaw" | Kent Room

Alex Forbes, City of Charlottetown

Steffen Käubler, UPLAND Urban Planning + Design Inc.

This session relates to how municipalities are responding to a number of issues that seem to come out of nowhere and impact how Zoning By-laws have been regulating various land uses for decades. Many of these changes are the result of new technologies and global trends that are re-arranging how land uses interact within municipalities. The demands on planners to ready municipalities for these changes as well

as to proactively influence the aesthetics of our built environment are growing. Some of these recent changes include AirBnBs, Uber, parking requirements for autonomous vehicles, LED street lighting, green roofs, residential solar panels and wind turbines, air exchange units for heritage properties, telecommunications towers, and the emergence of form based codes. These challenges are further complicated by the 2015 National Building Code which requires that all new buildings and major renovations require energy efficient upgrades which competes with heritage by-laws that prioritize maintaining the original building fabric and materials. Many of these challenges are presenting themselves at a time when most Planning Acts in Atlantic Canada did not contemplate these emerging issues or provide any language or policy direction with regard to how to regulate them.

Concurrent Session 1 [1.0LU] | 2nd Floor

2:50 - 4:00

2a) "Innovation & Legal Cases for Planners" | Richmond Room

André Daigle, Droit JURIS Law

Planners serve as trusted advisors to their political masters. We are often mandated with the task of knowing how best to regulate land uses. In this regard, let us look at some recent case law that has dealt with new issues like the location of cellular towers, Canada Post mailboxes, marijuana dispensaries and, if we have time, Uber... just because it is 2017!

2b) "Spatial Planning and Policy Development" | Grafton Room

Alan Howell, Nova Scotia Department of Municipal Affairs

Erin Stapleton, Stapleton Environmental Consulting

Alan Howell | Policy, Planning and Data: Bringing more tools to bear on Provincial Policy

Nova Scotia, in the post- Our New Economy Commission report Now or Never (2014), referred to as the Ivany report, after Commission chair, Ray Ivany, is seeking to innovate in several key sectors. The private and the public sector are being encouraged to innovate, seek efficiencies and work more collaboratively. There are calls for red tape reduction to foster innovations and entrepreneurship. Innovation often gets focused on technology, but what about planning policy? Can provincial planning policies be innovative yet still intelligible? Can technology be used to support increased innovation in policy development, implementation and evaluation?

The use of Geographic Information Systems in policy analysis has exploded in recent years, from map viewers, to scenario based master planning, there are so many software options for planners to use to envision, design and monitor change. However, in many places land use policy has not embraced the full capacity of these new tools, both to inform, but also to model, test and share policy proposals. In the case of land use planning policy, financial and economic components of projects (taxation, lifecycle costing, spatial mismatch, valuation of natural capital) are often not well integrated into the policy process. Technology and GIS software offer some interesting opportunities to mesh together land use, finance and

economics considerations, areas that have traditionally worked alongside each other, yet typically are considered independent of each other.

Staff with the Province of Nova Scotia's Municipal Affairs Department have been investigating methods to leverage spatial and spatially linked data to support policy development. Through examining the current application of existing land use policies (Statements of Provincial Interest) staff are piloting the use of geospatial and other data to guide, test and implement context sensitive land use policy options. While the approach itself is not novel, the application of the methods at the larger provincial scale has only been used in a limited fashion in Nova Scotia. More importantly though the project is attempting to make the heavy lifting of statistical and spatial analysis accessible to non-technical policy staff.

This presentation will outline the process to date and highlight some important lessons learned regarding bringing spatial and land use analysis into the provincial policy realm.

Erin Stapleton | The Next Wave – Marine Spatial Planning

Our coastal and marine spaces have multiple and sometimes conflicting uses, including fish harvesting, tourism, recreation, offshore oil and gas, and marine renewable energy. Layer on multi-jurisdictional governance, conservation efforts, the dynamics of the natural marine ecosystem, and the effects of climate change, and what results is a complex planning challenge.

Marine spatial planning (MSP) is a useful tool in addressing this challenge. It borrows many of the principles and processes from the established practice of land-use planning (LUP), including using spatial data, engaging stakeholders, zoning for certain uses, and informing policies and regulations. Australia and the United Kingdom are leaders in MSP, while the United States is a more recent adopter of the practice. In Canada, our Oceans Act and Oceans Strategy support MSP, but a comprehensive approach to MSP has yet to be developed or implemented.

This presentation introduces MSP as an emerging field in the planning profession. It highlights the similarities and differences between MSP and LUP; describes how MSP is different from traditional coastal and ocean management; and provides examples of MSP in action, including the Marine Plan Partnership for the North Pacific Coast in British Columbia. The presentation aims to stimulate conversation around the benefits of and challenges to implementing MSP in Atlantic Canada, and the role planners can play in managing our coastal and ocean areas.

2c) "Shorter Roads Go a Long Way" | Kent Room

Paul Dec, Eastern District Planning Commission

Tristan Cleveland, Metro Halifax & Ecology Action Centre

A small drop in density can equal a large rise in the distance between every person and every destination. That greater distance means it costs more energy, time and money for the city to function in its every aspect—for every kind of infrastructure to reach every home, and for each person to go anywhere, do anything. The greater the road length per person, the less efficient and nimble the city. We will present research on how road length per person varies with density throughout Halifax and eight other cities

across Canada. We further show how inefficient road networks impact sustainable transportation and municipal costs. The research offers important lessons for rural as well as urban areas, because we find small changes lead to especially large outcomes in low-density communities.

Closing Presentation [1.0LU] | Georgian Room
"Artificial Intelligence & Big Data | Implications for Planners"

4:00 - 5:00

Rob LeBlanc, Ekistics Plan + Design

Bob Shand, Industrial Research Assistance Program, National Research Council Canada

Rob LeBlanc | *The Future of Technology for Planning*

New technologies are emerging at a staggering pace that have the power to change human civilization as we know it. Since cities are the basic building block of human civilization, these technologies will impact how we plan cities and communicate alternate futures to our citizens. This presentation discusses new technological trends and tools that will impact urban planning in the next decade. The talk will also focus on new technologies for community engagement and consensus building, project visualization, city analysis, and transportation. Come and hear about how these technologies are finding a place in planning today and see the emerging trends that will reshape the cities of the future. Topics include multi-spectral drones, 3D Lidar mapping, virtual and augmented reality, artificial intelligence, digital publishing, traffic modelling, online engagement tools, and autonomous vehicles. The presentation will also show how these concepts are being implemented in projects around Atlantic Canada today. Come and strap on some VR goggles and see the future of planning.

Bob Shand | *Reducing cost, improving efficiency and increasing civic engagement: How new technologies like blockchains and DAOs could help*

Technologies like blockchains are innovating and changing at a rapid pace. It's easy to hear the buzzwords, and the hype surrounding a particular new technology, but it's harder to see in practice how these technologies could change the work that happens day in and day out. During this talk we'll explain what Blockchains and Distributed autonomous organisations are and more importantly how they could be used in the planning process. Via a simplified example, we will investigate and demonstrate the fundamentals of Blockchains and explore how they could be used to save time, money, effort, paperwork, whilst at the same time encouraging civic engagement.

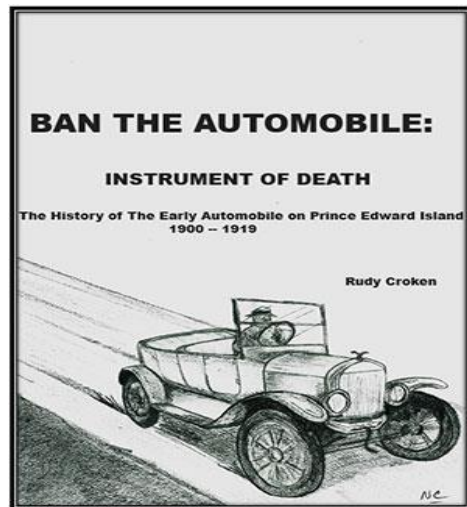
Friday, September 29, 2017

Keynote Address [1.0LU] | Georgian Room
"Of Ubers and Tubers – The Future of Transportation"

8:50 -10:00

Dr. Clarence Woudsma, University of Waterloo

The dizzying pace and scope of technological evolution presents a fascinating future for our communities. The disruptors are here: from business models of the “sharing” economy to autonomous vehicles roaming the streets of “smart cities” and robots impacting the future of employment. The hyperbole suggests we were on the cusp of a 4th Industrial revolution but can you see it in your communities? While drones may not be delivering pizza in your neighbourhood anytime soon, could the disruptors offer tangible solutions for the mobility challenges of the rural elderly? Will slower, safer streets be the norm along with greater interregional connectivity? In this morning keynote address, our speaker will take us through the inventory of major transportation disruptions coming and explore with us their potential impacts and opportunities for our communities.



Concurrent Session 3 [1.0LU] | 2nd Floor

10:20 - 11:20

3a) "Nimble & Rapid Freight Planning? Collisions, Freight and the Livable Community" | Richmond Room

Dr. Clarence Woudsma, University of Waterloo

The evolution of the freight/logistics industry is identified as a major element of globalization and our modern consumer oriented society. However, in communities around the globe, this industry and its activities are often at odds with the goals of healthy and vibrant places. Further, it has been argued that planners often do not understand the needs of this industry segment. The goal of this presentation is to explore the subsequent tensions or “collisions” that exist between the “goods” and the “bads” associated with the freight activity that shares the streets in our communities.

A number of case study themes will be addressed in the presentation. First, the economic development realm of freight and logistics activity will be examined at the broader community scale. Do communities embrace opportunities for logistics (distribution centres, intermodal facilities) land development, street traffic and related employment? What are the characteristics and impacts in communities that do? Second, the pattern of logistics related development at the regional scale are examined in relation to sustainability considerations. As “smart growth” principles designed to enhance sustainability are popularized, questions arise as to the place of freight and logistics activity within these principles. Finally, the potential collisions between active transportation developments on our streets and freight traffic considerations are examined. The key take away for planners will be a fresh perspective on considering freight activity in relation to a number of the key challenges that face their communities.

3b) “Back to Basics: Working with Nature to Better Inform Land Use Decisions” | Grafton Room

Adam Cheeseman, Nature NB

Planners and land use decision makers face an increasingly difficult task of managing both natural and built environments in the face of climate change. With increased frequency of storms and flooding to direct impacts on human health, climate change has and will continue to affect our communities in various ways.

In order to best plan for the future, innovative solutions are needed to adapt our communities to these changes. One way to incorporate adaptation into planning practice is by recognizing the important role nature can play in buffering our communities from risks, such as flooding. For example, wetlands help store water during storm events, but also provide recreational opportunities, water purification services, and critical habitat for species. Here, wetlands and other natural systems, such as forests, are considered key assets which, when managed appropriately, can provide low-cost solutions to help our communities adapt to the impacts of climate change.

This presentation aims to increase levels of awareness about natural assets and their potential role in the land use planning process. First, an overview of common natural assets will be provided, with particular emphasis on systems that help manage stormwater and flooding. Specific case studies will then be presented to shed light on innovative technologies and tools that have been used by municipalities currently exploring natural asset management. Finally, the presentation will introduce a Maritime-wide collaborative project, which aims to explore this approach and how it may help inform land use decisions in the future.

3c) *"Limited Access: A Workshop and Discussion on Open Data and the Role of Planners"*
| Kent Room

Ross Grant, TEAL Architects + Planners
Dave Espeseth, TEAL Architects + Planners

Are you interested in open data? Perhaps you don't know exactly what open data is, or perhaps you consider yourself an open data expert. Either way, this workshop is for you. TEAL will tell our story of how municipal open data led to new business opportunities, and some other examples of open data applications. We will share the current state of access to open data in the Atlantic Provinces, some open data challenges and the organizations advocating for better access to open data. After our presentation we will host a facilitated discussion in small groups which aims to identify major issues related to open data and planning, and discuss the role of planners in using and providing access to open data.

Sample Questions for the workshop:

- How can planners make use of new data sources?
- What kind of data do you use regularly in your job?
- What data or information do you need that you don't have access too?
- How is open data influencing the planning process?

Keynote Address [1.0LU] | Georgian Room
"Environmental Tools and Innovation on Prince Edward Island"
Dr. Adam Fenech, University of Prince Edward Island

11:20 -12:20

CLIVE, a joint project between UPEI's Climate Research Lab and the Spatial Interface Lab is Simon Fraser University, is the Coastal Impacts Visualization Environment, a sea level rise and coastal erosion video game, which allows users to fly over Prince Edward Island while raising and lowering the sea level and turning on/off coastal layers to identify areas of risk and vulnerability.

CLIVE is a leading edge climate change impacts visualization tool. It combines historical erosion data, IPCC model prejections of future sea-level rise, aerial imagery, and high resolution digital elevation data to develop analytical visualizations of coastal erosion and future sea-level-rise scenarios.

The effectiveness of CLIVE in educating citizens and raising awareness has helped it garner national and international attention. The team that created CLIVE has won an international award in 2014 from the Massachusetts Institute of Technology for Communicating Coastal Risk and Resilience. As a result of the CLIVE roadshow to eight PEI communities, the PEI Association of Planners named Dr. Fenech the winner of the 2014 Pinchuk Community Builder Award, recognizing the highest standard of community building in the public and private realms.

Since the introduction of CLIVE in 2014, efforts to continue to develop coastal erosion tools and to share ideas on how to adapt to coastal erosion and sea level rise continue.

"Greenwich Provincial Park Bus Tour" [3.0LU; \$50]

1:00 - 4:00

*Hosted by Dr. Adam Fenech, University of Prince Edward Island**Optional Box Lunch Available (\$)*

The Greenwich adjunct of Prince Edward Island National Park is a 900-acre site recognized internationally for its unique dune system, its wide variety of bird species and rare plants found in its marshes and woodlands, and the nationally important Aboriginal and Acadian archaeological sites. Located on the western end of the peninsula separating St. Peters Bay from the Gulf of St Lawrence, it is located 60 kilometres from Charlottetown. Greenwich is an area sensitive to sea-level rise, coastal erosion and storm surges. Following a closing keynote about the vulnerability of the area, a tour of Greenwich will be conducted to experience the fragility of the grassland, forest, wetland and sand dune area.

"500 Lot Area Heritage & Innovation Walking Tour" [2.5LU; \$20]

1:00 - 3:30

*Natalie Munn, City of Charlottetown**Shaman Ferraro, Atlantic Green Contractors**Josh Silver, Holland College**Representatives, Government of Canada*

The 500 Lot Area encompasses the City of Charlottetown's historical, cultural, and symbolic downtown core. It was here that the Charlottetown Conference was held in 1864 that led to Canada's confederation in 1867. Today, the 500 Lot Area remains the City's primary governance, service, and entertainment hub and is a protected heritage district, which is home to numerous built heritage resources.

The Heritage & Innovation Walking Tour will begin with a brief overview of the area's history and key heritage resources, but transition to a focus on present day innovation in heritage restoration and green building design. The group will visit several prominent downtown destinations and be joined by guest speakers who will discuss exciting projects that are unique to Charlottetown. Destinations include:

- 170 year old Province House, where extensive restoration efforts are underway;
- Holman Grand Hotel and its green roof network; and
- Holland College's Heritage carpentry workshops and the Centre for Applied Sciences and Technology, which is one of four Canadian buildings to receive the highest rating from Green Globes Energy Analysis.

** Speakers and/or destinations are subject to change prior to the event.*

Presenter Profiles

Presenter biographies are ordered by appearance in the conference program.

Thursday, September 28, 2017

Jeff Lehman | Mayor, City of Barrie

Jeff Lehman is the 46th Mayor of the City of Barrie. Mayor Lehman represented Barrie's Ward 2 as a Councillor from 2006-2010 before being elected Mayor in 2010. From 2014-2017, Lehman chaired Ontario's Big City Mayors' Caucus (LUMCO), representing Ontario's 27 largest cities.

As the head of Council, he is leading Barrie through a period of rapid change. During his first term in office, major new campuses were developed in Barrie by IBM, TD Bank, Cogeco, Napoleon, and others, and Barrie led all metropolitan areas east of Alberta in the rate of job creation. In October 2014, Mayor Lehman was re-elected with 92.3% of the popular vote. In 2015, Barrie was named the safest big city in the country, and in 2016 was named Canada's 3rd most entrepreneurial city, by the Financial Post. Mayor Lehman is also a founding director of Alectra, the second largest community-owned utility in North America, serving more than a million customers in southern Ontario.

Lehman has served on the Boards of Directors of 8 separate organizations over his ten year career in public service, including on the Board of the Association of Municipalities of Ontario. His articles concerning the future of municipalities have appeared in the Globe and Mail and industry publications and he has been a frequent keynote speaker at conferences, focusing particularly on innovation in the public sector and the intersection of business, community, and government. He liaises frequently and directly with senior government both on behalf of his municipality and on behalf of the municipal sector. In 2017, he was awarded the Gil Bennett Award by the Conference Board of Canada for excellence in corporate governance education through the Director's College.

He holds a B.A. from Queen's University, and a Master's Degree with first class honours from the UK's London School of Economics, where he lectured for two years following graduation. As an economist, he worked with cities across the country to manage redevelopment and invest in their urban infrastructure during a ten year career as a consultant before entering public life. Mayor Lehman is a passionate believer in transforming urban economies through public and private entrepreneurship.

Bonnie Stewart | Digital Educator

Bonnie Stewart is an educator and social media researcher fascinated by who we are when we're online. An instructor in the Faculty of Education at the University of Prince Edward Island, Canada, and Founder/Director of the media literacy initiative Antigonish 2.0, Bonnie explores the intersections of knowledge, technology, and identity in her work. As a keynote speaker and consultant, Bonnie has presented on digital strategy, digital literacies, and change leadership across Canada, and in the US, Europe, Australia, and the Middle East. Her research focuses on Twitter and the implications of networks and

social media for institutions. Her sessions aim to enact the open, participatory, and collaborative ethos that she examines. Lead Researcher and Writer of a ten-year Cultural Strategy for the province of Prince Edward Island, Bonnie does her best thinking out loud on Twitter as @bonstewart.

Doug Keefe | Interim CEO, Startup Zone

Doug Keefe is the Interim CEO of Startup Zone, the early-stage business incubator for PEI. He is a passionate supporter of entrepreneurship and building companies that have a strong focus on understanding customer needs before selling solutions. He is actively building partnerships between established businesses, government organizations, and budding entrepreneurs to encourage innovation and entrepreneurial thinking across this broad spectrum of organizations and mindsets. Prior to this position, he was the founder of Logikl Technology Inc, which advised, and architected SaaS applications across various industries and resulted in multiple acquisitions. Recently, Doug was a Senior Project Manager for Shared Services Canada where he oversaw the management of a portfolio of key IT-based projects. Doug was also the co-founder and CTO of the Charlottetown-based startup, GetGifted Inc. that saw quickly grew to over 20,000 users and delivered millions of dollars in free gifts to its users.

Sean Aylward | Owner, The Humble Barber

Sean Aylward is a graduate from the UPEI Political Studies program in 2009. After graduating, he traveled to Alberta to diversify his experience, and started as a labourer on an oil site, and soon after began a carpentry apprenticeship. After a few years of that, he worked a sales position in St. John's, Newfoundland for two years. He decided to go back to the original plan, wrote his LSAT's, and upon receiving notice of a good score, he realized it wasn't what he was interested in, and wanted to dive into entrepreneurship. Sean is now the owner of two barbershops, called The Humble Barber, in both Summerside and Charlottetown. He is also the Vice President, and President Elect of the Greater Summerside Chamber of Commerce.

Sarena Teakles | Market Analyst, Canada Mortgage and Housing Corporation

Sarena Teakles joined the Atlantic Market Analysis team in 2015. She provides insights, analysis and information on the resale, rental, and new home markets for Prince Edward Island and Saint John, New Brunswick. Over her 15 year career with CMHC she has held a variety of positions across the country, gaining exposure to the Insurance, Capital Markets, Risk Management and Market Analysis functions of the organization.

Leanne Jennings, MCIP, LPP | Planner, Municipality of the County of Kings

Leanne Jennings has been a planner with the Municipality of the County of Kings in Nova Scotia since 2008. Leanne holds an Honours Bachelor of Outdoor Recreation from Lakehead University, a Bachelor of Science in Biology from St. Francis Xavier University and a Masters of Planning from Dalhousie University. She is currently enrolled part-time in the Masters of Public Administration (Management) program at Dalhousie University. Leanne has a passion for community engagement. She recently completed a term as the facilitator of the Municipality's interdisciplinary Community Engagement Working Group and currently sits on the Municipality's Youth Engagement Working Group. Through this work Leanne has had exposure

to a variety of community engagement techniques and methodologies including: Deep Democracy, Art of Hosting, World Café and the International Association of Public Participation (IAP2).

Lesley Cabott, MCIP, RPP | Senior Planner, Stantec Consulting Ltd.

Lesley, who was educated in Atlantic Canada, has had a long and distinguished career planning in Canada's north. In addition to a consulting career independently and with well-recognized firms, she was Manager of Planning, Development, and Sustainability with the City of Whitehorse for ten years before leaving to go to England to study climate change and the role planners and the planning system must play to ensure resilient communities. She contributed award winning research to Canada's contribution to the International Polar Year and was an advisor to the Federation of Canadian Municipalities on the Municipal Climate Innovation Program (MCIP). Lesley is often heard telling her clients that 'planning is about people'. This philosophy is front and centre in her work with communities which is why she enjoys the 'planning in a week' process. In her role with Stantec in Newfoundland, she is leading the team preparing the Northeast Avalon Regional Plan and has been grateful to work with the municipalities of Labrador City, Wabush, Conception Bay South and St. Albans on their Municipal Plans and Development Regulations. She is the incoming president of the Planners Institute of British Columbia and Yukon and is moving north after the conference to welcome her first grandchild.

Christine Jeans, MCIP, RPP | Planner, Stantec Consulting Ltd.

Christine Jeans, MCIP, Planner, Stantec Consulting Ltd., has a strong background and understanding in community planning and land-use planning. She has been involved in planning projects, including the plan and bylaw reviews for the Town of Montague, Town of St. Alban's and Community of Brudenell.

Mike Thususka, Ec.D. | Director of Economic Development, City of Summerside

Michael Thususka is a certified Economic Development Practitioner and is Director of Economic Development for the City of Summerside, Prince Edward Island Canada, has been working in the field of Economic Development for the past 26 years, 20 of which have been with the City of Summerside. Mike is the primary Economic Development contact for the City of Summerside. The City of Summerside Economic Development Office was developed as a "one-stop shop" for business development information. The office supports existing businesses in their quest for success, as well as to encourage new businesses to establish within the City. Summerside's professional team offers a wide range of services to support business expansion and attraction including Market Information, Human Resources Information, Location Services, Corporate Relocation Services, Financial Assistance, Liaison with Federal and Provincial officials, Investment Counselling, Immigration and Support Services.

Stephen Stone, M.PI. | Dillon Consulting Ltd.

Stephen Stone is an Associate and Planner at Dillon Consulting Limited with five years' experience in Community Planning, Transportation Planning, Land Use Planning, Indigenous Community Planning, and Community and Stakeholder Engagement. Stephen has recently worked with Kingsclear First Nation on an update to their Comprehensive Community Plan, a long-term Housing Strategy, and a Climate Change Vulnerability Assessment and Adaptation Plan. Additionally, Stephen is in the process of assisting the Town

of St. Stephen and the Village of St. Martins in updating their Municipal Plans and Zoning By-laws. Stephen is a candidate member of the Canadian Institute of Planners.

Julie DiCicco, EIT | Dillon Consulting Ltd.

Julie is an environmental engineer-in-training with experience in Indigenous consultation and related projects. She specifically develops innovative solutions to First Nation challenges related to housing and water and wastewater management. She recently completed a climate change vulnerability assessment for infrastructure components within a First Nations community and is contributing to the development of a community-wide adaptation plan that incorporates traditional practices and capacity development.

Representative | Kingsclear First Nation

To be provided.

Alex Forbes, MCIP, MBA | Manager of Planning & Heritage, City of Charlottetown

Alex Forbes, a native of PEI, joined the City of Charlottetown in 2013 to manage their Planning and Heritage Department after working with the City of Fredericton in a number of management roles for over 16 years. Alex has a Masters Degree in Urban Planning and Business Administration and has extensive experience in development control, long range planning, policy development and heritage preservation.

Steffen Käubler, MCIP, LPP | Partner, UPLAND Urban Planning + Design Inc.

Steffen is founding partner of UPLAND, a planning, landscape architecture and public engagement consulting firm based in Dartmouth, Nova Scotia. During the past 15 years of working as consultant with communities across Atlantic Canada, Steffen has developed an expertise as a planner and designer with a keen interest in bridging the gap between planning policy and physical design. Steffen regularly project-manages multi-disciplinary consulting teams and has provided strategic advice to many public and private sector clients on infrastructure planning, urban design, land use planning and active transportation. From 2014 to 2016, Steffen served as appointee to the City of Charlottetown Design Review Committee.

André Daigle, RPP, LLM | Droit JURIS Law

Before his legal career, André was employed as a land use planner with the provincial government and worked on policy and regulation development, planning commission restructuring, municipal amalgamations, as well as plan reviews (1992-1998). André began practicing law in 2002 as a solo practitioner and then joined the City of Dieppe during a period of substantial growth. He held the positions of city solicitor, director of planning & development and clerk. He then returned to private practice in 2011 and became the founder and partner of the firm Droit JURIS Law. André has published and co-published several articles in the legal and planning fields and has been actively involved as a trainer and conference speaker. He has taught Planning Law at Mount Allison University, as well as municipal law, geography and municipal administration at the Université de Moncton. Andre holds a Master of Urban and Rural Planning degree from the Technical University of Nova Scotia (1992) and a Master of Laws (Municipal) from Osgoode Hall (2009). He is also actively involved in both professions. André held the offices of President of the Atlantic Planners Institute (2012-2014), President of the New Brunswick

Association of Planners (2007-2010) and is currently a member of the Professional Standards Board (CIP). He is also the Chair of the National Municipal Law Section of the Canadian Bar Association.

Alan Howell, MCIP, LPP | Senior Planner, Nova Scotia Department of Municipal Affairs

Alan Howell is a Senior Planner with the Nova Scotia Department of Municipal Affairs (DMA). Much of his work with DMA has been related to the Statements of Provincial Interest, Nova Scotia's provincial land use policies, which address the protection of agricultural land, affordable housing and drinking water, intelligent use of infrastructure and avoiding development in areas with high risk of flooding. Alan's current work focuses on the integration of data from various sectors, government departments and other agencies, to inform land use policy, but also foster collaborative policy creation between relevant government departments. Alan holds a graduate degree in Planning from the University of Waterloo and an undergraduate degree in Planning and Urban Design from Concordia University.

Erin Stapleton MEdes, MCIP, EP | Stapleton Environmental Consulting

Erin Stapleton is an environmental and planning consultant in St. John's. She has worked on natural gas pipelines, wind farms, transmission lines, marine terminals and mines, from British Columbia to Newfoundland and Labrador. The current focus of her work and research is wind energy development in Atlantic Canada. Erin obtained her Master of Environmental Design (Planning) in Calgary in 2009, and is currently enrolled in the Master of Marine Spatial Planning program at the Fisheries and Marine Institute in St. John's. She is a member of the St. John's Local Board of Appeal and the Newfoundland and Labrador Wilderness and Ecological Reserves Advisory Council.

Paul Dec | Municipal Planner, Eastern District Planning Commission

Paul is a passionate urbanist from Europe. He grew up in Poland as well as Germany and obtained his planning degree in Bristol, UK. After his arrival in Halifax he quickly became involved with the local urban development community. As a planning consultant to a business improvement district, he worked on turning parking lots into paradise. His favourite planning topics comprise efficient land use planning, urban design and transportation policy. Paul is currently implementing participatory planning methods in informal settlements of Egypt.

Tristan Cleveland | Columnist, Metro Halifax & Sustainable Urban Planning Advocate, Ecology Action Centre

Tristan is an urban planner from Nova Scotia who has worked in Montreal, Guyana, Venezuela and Halifax. He advocates for sustainable planning with the Ecology Action Centre, writes an urban issues column with Metro, and contributes to Spacing. He worked as a campaign manager in Halifax's last municipal election, and believes more planners should work in municipal politics as an implementation strategy for our area of expertise. He has devoted his life and career to reforming planning so building communities that support the basic needs of human health becomes the new minimum standard.

Rob LeBlanc, FCSLA, ASLA, MCIP, LPP, APA, SEGD, ULI, UDI, LEED AP | President, Ekistics Plan + Design

Rob is president of Ekistics and is a registered planner (API), and a Fellow of the Canadian Society of Landscape Architects (CSLA). Rob is fascinated by evolving technologies and their application to planning and design. Rob oversees a team of 20 architects, engineers, planners and landscape architects from his home base in Dartmouth.

Bob Shand | Industrial Technology Advisor, Atlantic & Nunavut, Industrial Research Assistance Program, National Research Council Canada, Government of Canada

Bob Shand is an Industrial Technology Advisor with the National Research Council's Industrial Research Assistance Program. Prior to joining IRAP he was a software developer working in the gaming, mobile and financial sectors. As an ITA with NRC-IRAP he aims to help small and medium enterprises successfully understand, research, develop and commercialise new innovative technologies.

Friday, September 29, 2017

The Honourable Diane F. Griffin | Senator, Prince Edward Island

Senator Diane Griffin worked in land conservation in both her career and volunteer activity. She was the Natural Areas Coordinator in Alberta for eight years before moving back home to work for the Prince Edward Island Nature Trust. Other career steps included serving as the PEI Deputy Minister for Fisheries and Environment and as the PEI Program Director for the Nature Conservancy of Canada.

Mrs. Griffin served on national boards and advisory groups such as Nature Canada, Birds Studies Canada, Wildlife Habitat Canada and the National Round Table on the Environment and Economy as well as the Environmental Advisory Council.

Senator Griffin was on the Town of Stratford Council for thirteen years and sees municipalities as key players in reducing Canada's carbon footprint.

Dr. Clarence Woudsma, Ph.D., MCIP, RPP | Director, School of Planning, University of Waterloo

Dr. Woudsma has been Director of the University of Waterloo's School of Planning since 2008. He is a Past President of the Canadian Transportation Research Forum and has published on broad range of subjects including climate change adaptation and transportation, urban freight planning, regional freight assessment, and distribution centre location analysis. Clarence teaches in a variety of areas including transportation planning, economic development, and analytical methods. He has served on a number of advisory committees to government (rail, transit, urban goods movements) and serves on a number of industry and disciplinary committees, including current work with OPPI.

Adam Cheeseman | Climate Change Project Officer, Nature NB

Adam Cheeseman works as a Climate Change Project Officer with Nature NB, a charitable non-profit. Nature NB's mandate is to celebrate, conserve, and protect New Brunswick's environmental heritage through education, communication, and collaboration. Adam is currently coordinating a collaborative climate change adaptation project with various groups across the Maritime Provinces, which explores natural asset management and decision-making.

Ross Grant | Planner, TEAL Architects + Planners

Ross' most recent work involved the site selection for a transition home in Halifax, Nova Scotia and an age friendly planning process in Main Street Dartmouth, NS. He was part of an API award winning team which produced an Affordable Housing Needs Assessment on Nova Scotia's South Shore. Ross regularly preforms data analysis work and has experience using a variety of collection and analysis methods for projections and estimates related to economy and demographics. He volunteers as a board member with the Planning and Design Centre in Halifax.

Dave Espeseth | Planning Intern, TEAL Architects + Planners

Dave is a second-year Master of Planning student at Dalhousie University. His academic interests include the linkages between housing and transit-oriented development in mid-sized municipalities. Prior to attending Dalhousie, he worked as a watershed planner with the Saskatchewan provincial government for five years.

Dr. Adam Fenech | Director, University of Prince Edward Island Climate Lab

Dr. Fenech has worked extensively in the area of climate change since the Intergovernmental Panel on Climate Change First Assessment Report in 1988. He has edited 8 books on climate change, most recently on Climate Change, Biodiversity and Sustainability in the Middle East.

Dr. Fenech has worked for Harvard University researching the history of the science/policy interfaces of climate change. He has represented Canada at international climate negotiating sessions; written climate policy speeches for Canadian Environment Ministers; and authored Canadian reports on climate change to the United Nations.

Dr. Fenech has taught at the University of Toronto as well as the Smithsonian Institution for almost 20 years, and lectures regularly at universities across Canada and around the world. He is presently the Director of the University of Prince Edward Island's Climate Research Lab that conducts research on the vulnerability, impacts and adaptation to climate change.

Natalie Munn, MLIS | Heritage Researcher, City of Charlottetown

Natalie holds a Bachelor of Arts in History from UPEI and a Master of Library and Information Studies from Dalhousie University. After working in an academic library, she feels fortunate to have been able to return to her first love - history and heritage buildings - in her favourite city in the world. Currently, she works as Natalie Munn and Collections Coordinator with the City of Charlottetown where she creates exhibits, builds the City's historic collections and online heritage applications, and drives the planners to distraction constantly talking about the City's history. Natalie has previously worked as a writer and researcher on a couple of book projects and the Historic Places Initiative, as well as been employed with the Public Archives and the Special Collections/Archives at UPEI.

Shaman Ferrero, BBA, GRP2013, LEED Green Associate | Atlantic Green Contractors

To be provided.

Josh Silver, BS, RSE | Learning Manager, Heritage Retrofit Carpentry Program, Holland College

Josh earned a Bachelor of Science in Natural Resources, Forestry at Ohio State, but now resides with his family in Charlottetown. He is a Red Sealed carpenter and has been with Holland College for six years. At the present time he is the Learning Manager and Curriculum Developer for the Heritage Retrofit Carpentry Program at Holland College, which is located in the new Center for

Applied Science and Technology building. Additionally Josh is the Vice President of the National Skills Canada Board of Directors.

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