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# AtlanTECH news



*SttagN-B = Les spécialistes de la technologie au Nouveau-Brunswick  
NBSCETT - New Brunswick's technology professionals*

2009-'10 recipient of the **George E. Hamilton Member Of The Year Award** is **Kenneth C. Brown, PTech**. A member since 1968, Mr. Brown has served in many roles, including District Councillor, Certification Board member, Society President (1987 & '88), and Registrar. His volunteerism has extended through the community both with the recent establishment of the Gentle Shepherd Church and for many years with youth groups in which his family was involved.



**Member Of The Year recipients:** 2000- Albert DeWitt, CET; 2001- Gerard J. Caron, CET; 2002- Ronald J. G. LeBlanc, PTech; 2003- Robert E. Thibodeau, CET; 2004- V. June Connell, CET, CCT; 2005- Gerry R. Deveau, CET; 2006- Timothy C. MacDonald, PTech; 2007- Frederick C. Lawton, CET; 2008- Don Belanger, PTech; 2009- Greg C. Purdue, PTech.

## ***In this issue:***

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**Annual General Meeting  
April 24<sup>th</sup>, 2010**

**Delta Hotel, Fredericton NB  
10:00 AM – 10:50 AM**

Participating:

Eric Arseneault, PTech  
Jean-Guy Babineau, PTech  
Donald Bélanger, PTech  
Kenneth C. Brown, PTech  
Tony Brown, PTech  
Eric Caron, PTech  
Bob Clarke, CET  
Gerald Deveau, CET  
Troy Doyle, CTech  
Steve Dubé, PTech  
Patricia Duffy  
Luc Durepos, PTech  
Pierre Fournier, CTech  
Cindy Garnett, PTech  
Ken Geldart, PTech  
Gary Gillis, PTech

Scott Goldie, CET  
Stephen Gould, CET (ACETTPEI)  
Denis Haché, PTech  
Jean-Guy Hébert, CET  
Fred J. Herkert, CET  
Ron J. G. LeBlanc, PTech  
Ed Leslie, CAE, PTech  
Jean Luc Michaud, PTech  
Dorothea B. Mitchell, PTech  
Marco Morin, PTech  
E. James Nyers, PTech  
Robert Okabe, CET (CTTAM)  
Greg C. Purdue, PTech  
Kimberly Rice, PTech  
David Saunders, C.E.T. (OACETT)  
Tim Scammell, PTech  
David Sheaves, PTech

- AGM#10-01 President Sheaves called the meeting to order at 10:00 AM, and thanked everyone for their participation.  
AGM#10-02 There was a moment of silence to honour deceased Society members of the past year.  
**AGM#10-03 Acceptance of the minutes of the April 25<sup>th</sup>, 2009 (41<sup>st</sup>) Annual General Meeting was M/S (JL Michaud / T. Scammell). Carried**

**President's Report:**

- AGM#10-04 President Sheaves has requested that members are urged to please write/e-mail any further questions or concerns following today's limited discussions regarding recent events of the CCTT evolution, so that responses may be given following the next regular Council meeting.  
**AGM#10-05 Acceptance of the President's Report was M/S (K. Rice / M. Morin) Carried**

**Executive Director's Report:**

- AGM#10-06 E.D. Leslie reported that it was another busy year with a lot of advocacy being done. He thanks the NBCC/CCNB for their support to NBSCETT. Another very important relationship of NBSCETT is the Skills Canada organization. If there are any questions or concerns regarding his report, please do not hesitate to call him.  
**AGM#10-07 Acceptance of the Executive Director's Report was M/S (K. Brown / J-G. Babineau) Carried**

**Registrar's Report:**

- AGM#10-08 K. Brown spoke about the Society's mandatory Professional Development Assurance (PDA) program. All Certified Members must complete the form every year. It is a program that is beneficial both to the member and the employer. The website is continually updated for members to complete the PDA forms.  
AGM#10-09 Details were given of the new uniform self assessment system for Internationally Trained Professionals based on the NTB's.  
AGM#10-10 Work on building a trained team of members for program accreditation activities is in process. Members are needed to participate in accreditation activities and urged to please contact the Society.  
AGM#10-11 The NBSCETT Histogram included in the report was explained.  
**AGM#10-12 Acceptance of the Registrar's Report was M/S (K. Brown / T. Scammell) Carried**

**Introduction of Special Guests:**

- AGM#10-13 President Sheaves introduced the following Special Guests: T. Scammell, PTech (immediate Past President of NBSCETT); Kenneth C. Brown, PTech (current Registrar of NBSCETT, and a Past President of NBSCETT); Fred J. Herkert, CET (a Past President of CCTT and of NBSCETT); Bob Clarke, CET (a Past President of CCTT and of NBSCETT); E. James Nyers, PTech (a Past President of NBSCETT, and current CCTT Director

representing NBSCETT); Steven Gould, CET (immediate CCTT Past President); Robert Okabe, CET (CCTT Director representing CTTAM); David Saunders, CET (OACETT President).

AGM#10-14 CTTAM Director to CCTT: Robert Okabe, CET (Speech)

It's my sincere pleasure to be here with you today and to extend warm greetings on behalf of our National Office, our constituent members across the country, and your fellow Certified Technicians and Technologists. I am certain that much will be gained from your discussions here and I am truly honored to have the opportunity to contribute to these proceedings.

To that end, one might ask what is CCTT's value proposition for its members? Clearly, there are host of activities and programs elements that taken individually and in combination offer real tangible and intangible benefits. Examples include: the successful expansion, development and stewardship of Canada's national accreditation process for applied science and engineering technology programs; leadership in the development and implementation of the National Technology Benchmarks™; building national profile and prominence as a professional society; ensuring national and international mobility for technology professionals and, creating visibility and influence with, and access to, the federal government on matters that benefit the members. These are all vital activities that are appropriately, efficiently and effectively delivered by our national office as part of the value proposition for all members.

It is important to note that the overriding strategic focus for CCTT, inherent in all of these aforementioned activities, is membership development on a macro level. In other words, providing real value by creating the conditions nationally and internationally that will cause greater numbers of technicians and technologists to seek membership and seek Certification from our Constituent Members nationwide.

How have we gone about doing that? The list of national successes is a long one, but I believe a few highlights are worth noting here today. The creation of the National Technology Benchmarks™, for example, is an accomplishment lauded and envied by other professional societies not only within Canada but also internationally. Our piers see the tremendous value inherent in moving to an outcome based assessment and other professions are seeking to follow in our footsteps. Moreover, the NTBs have further served to differentiate and increase the value of our accreditation service and its overall desirability and marketability to colleges across Canada.

Leadership on the national stage for skills development is another. Through programs like National Technology Week and Go TechGirl™, CCTT has raised national awareness encouraging more young Canadians to pursue technology careers. From modest beginnings, these programs have grown to national prominence over the past several years, becoming pillars for skills promotion across the country.

The area of mobility and credential recognition is another. CCTT has taken a leadership role in ensuring compliance with its obligations under the Agreement on Internal Trade (AIT) and in preparing of the implementation of the National Credential Recognition Framework in 2012. These important activities serve to ensure ease of mobility for Certified Canadian technicians and technologists and facilitate the process of credential recognition for foreign trained technicians and technologists seeking Certification in Canada. Our leadership and forward thinking in these areas have been recognized by federal and provincial governments who are now actively working with us as partners, bringing valuable resources and government funding to help move our program forward.

In conclusion, I would summarize my remarks today by re-affirming that CCTT is in the business of delivering value for its constituent members and that is what we will continue to do. As a professional community, we must continually strive to improve communication, to break down barriers that limit our potential and to ensure that our voice is heard within the family and with outside stakeholders. I encourage you to work with us and ask that you actively express your support to your CM on behalf of the CCTT Federation and the proud legacy it has created serving you – the technicians and technologists of Canada.

Thank you, and best of success in your endeavours.

AGM#10-15 OACETT President: David Saunders, C.E.T. (Speech)

Thank you for the kind invitation to attend the 42nd NBSCETT Annual General Meeting. On behalf of the 24,000 members of OACETT, I bring greetings and best wishes. OACETT looks forward to building on our relationship with NBSCETT, and the opportunity to have the maritime provincial associations partner with OACETT on a bi-annual wage & salary survey, this is just one example of how we can benefit from partnering on like minded efforts. As the constituent member provinces move forward to construct a new national partnership, we will continue to provide services and benefits to all of Canada's engineering and applied science technicians and technologists. In a new national body, a new partnership focused on core activities and principles will strengthen the positions of all CMs in their home provinces and en masse across our great country. I'd like to thank President Sheaves for hosting my wife Peggy and I this weekend. Best wishes to NBSCETT for a successful AGM.

AGM#10-16 Steven Gould, CET congratulated the Society for its successes, and noted that everyone should be proud of the work NBSCETT does. Last year's 13.5% membership growth of NBSCETT is the highest he's seen across Canada.

### **Board Reports:**

#### **Certification Board Report:**

AGM#10-17 Greg C. Purdue, thanked all the current Board members and staff of NBSCETT for their participation. The Certification Board is always in search of new members. If anyone is interested in participating in the Certification Board, please contact the Society office.

**AGM#10-18 Acceptance of the Certification Board Report was M/S (R. LeBlanc /F. Herkert) Carried**

#### **Accreditation Board Report:**

AGM#10-19 E.D. Leslie spoke about Candace Scott, CET (absent), the new CTAB Representative who has replaced Roger Poitras, P'Tech.

AGM#10-20 Twenty volunteers (minimum) for the province are needed for the next coming year. If anyone is interested, please contact the Society and training will be organized. We all have to be active in promotion to try to bring the young people into the technology professions.

**AGM#10-21 Acceptance of the Accreditation report was M/S (E. Nyers / D. Haché). Carried**

### **Committee Reports:**

#### **Finance Committee Report:**

AGM#10-22 E.D. Leslie read the letter from EPR Day Kelly & Associates regarding the Review Engagement Report.

**AGM#10-23 Acceptance of the Review Engagement Report as presented. (see AGM#10-36)**

**AGM#10-24 The appointment of EPR Daye Kelly & Associates to conduct a 'Review Engagement' of the Society's financial records for the fiscal year 2010 was M/S (P. Duffy / D. Mitchell). Carried**

#### **Nominating Committee Report:**

AGM# 10-25 E.D. Leslie introduced the Council 2010-2011 participants.

AGM#10-26 E.D. welcomed V. June Connell, CET (absent), and P. Duffy (Public Councillor) to the Council.

**AGM#10-27 Acceptance of Nomination Committee Report was M/S (D. Bélanger /J-G. Hébert). Carried**

#### **Discipline Committee Report:**

AGM#10-28 On behalf of H. Orville Scott, CET (absent), Chair of the Discipline Committee, E.D. Leslie proudly proclaims that there has never been a Report from this committee at any meetings in the Society's history.

**AGM#10-29 Acceptance of Discipline Committee Report was M/S (E. Caron /S. Goldie). Carried**

#### **Human Resources Committee Report:**

AGM#10-30 R. Clarke said that the HR Committee has met during the year to complete the annual performance review of the Executive Director and the operating functions of the Society. The 'Council Governance Policies' were reviewed and updated. He was pleased with the outcome of the 'Visioning Session' held in January. He thanked NBSCETT staff and volunteers for their hard work and participation.

**AGM#10-31 Acceptance of H.R. Committee Report was M/S (G. Gillis / G. Deveau). Carried**

#### **Canadian Council of Technicians and Technologists Director's Report:**

AGM#10-32 E.J. Nyers thanked NBSCETT staff and volunteers for their continuing work for the benefit of the profession.

AGM#10-33 After putting a lot of work in the 3<sup>rd</sup> Party Review, E.J. Nyers is disappointed of the recent outcome but remains positive for the future of CCTT and NBSCETT.

**AGM#10-34 Acceptance of CCTT Director's Report was M/S (T. Scammell /P. Fournier). Carried**

### **New Business:**

#### **Signing Officer's Resolution:**

**AGM#10-35 Acceptance of Signing Officer's resolution was M/S (G. Purdue /K. Geldart). Carried**

By-Law amendment:

AGM#10-36 Acceptance to amend By-Law 7.04 by changing the word 'audit' to 'audit/review engagement' and to add the phrase 'A full financial audit shall be completed at least every five years (2015)'; and, acceptance to amend By-Law 19.4 to change the word 'audit' to 'audit/review engagement' was M/S (T. Doyle / C. Garnett). Carried

AGM#10-37 Acceptance of adjournment at 11:50 AM was moved by Steve Dubé, PTech.



At the Society's April 24, 2010 AGM, **Robert Okabe, CET**, Director of the Canadian Council of Technicians and Technologists representing the Certified Technicians and Technologists Association of Manitoba (CTTAM) presents greetings and national message from the CCTT Board of Directors.



**David Saunders, CET**, President of the Ontario Association of Certified Engineering Technicians and Technologists (OACETT) brings greetings to the NBSCETT/SttagN-B April 24, 2010 AGM.



**Note:** **The NBSCETT/SttagN-B Certification Board will consider membership applications during the coming year on:**

September 27, 2010      November 8, 2010      December 6, 2010

February 7, 2011      April 11, 2011      June 13, 2011

**Applications for membership should be received at least four (4) weeks prior.**

# ***join with the Technology Professionals of New Brunswick***

Journeymen, Electricians, Millwrights, Toolmakers, Stationary Engineers, and others with a Certificate of Qualifications (CQ), Red/Gold seal, or diploma of Apprenticeship may be eligible for membership in the New Brunswick Society of Certified Engineering Technicians and Technologists (NBSCETT). Your certification could qualify you to reap the valuable benefits of membership as an Associate while you work towards PTech or CTech certification - the key to full membership - the next step in your career.

- \* NBSCETT customizes a plan to guide you to certification.*
- \* Previous training and experience may be credited towards your certification.*
- \* The designations PTech and CTech are titles protected by statute, respected and valued by industry, government and within the engineering technology team.*
- \* Designations are transferable across the country and to other countries.*
- \* Member benefits and services available to all members include employment search services, group insurance for home/apartment, auto, life, disability, small office, auto rentals, consumer discounts and more!*

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## ***Joignez les professionnel(le)s de la technologie du Nouveau-Brunswick***

Compagnons(gnes) en Électricité, Mécanique Industrielle, Outilleur-Ajusteur, Mécanicien de machineries fixes et autres qui sont détenteurs(trice) de Certificat d'Aptitude, d'un associé(e) de la SttsagN-B Société des techniciens(nes) et des technologues agréés du génie du Nouveau-Brunswick (SttagN-B). Votre certification pourrait vous qualifier à recevoir les bénéfices offerts aux membres associé(e)s tout en travaillant vers l'obtention de la certification PTech ou CTech.

- \* L'expérience et formation antérieure peuvent être créditées envers une certification.*
- \* Les désignations PTech et CTech sont des titres protégés par statut, qui sont respectées et estimées d l'industrie et des gouvernements et font parties d l'équipe de technologie en ingénierie.*
- \* SttagN-B développera un plan qui vous guidera vers votre certification.*
- \* Les désignations sont transférables à d'autres provinces et pays.*
- \* Les bénéfices et services qui sont disponibles aux membres associé(e)s incluent les services d'aide à la recherche d'emploi, assurances groupe pour maison, auto, vie, invalidité, et rabais sur location d'auto et sur autres produits de consommation.*





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**Anicet Kenfak-Dongoh** (2e à gauche) étudiant du cours de Technologie de l'ingénierie de bâtiment au CCNB Campus de Bathurst reçoit la bourse de 1000\$ TD Meloche-Monnex/Sttag N-B présenté par M. Ed Leslie Directeur Exécutif de SttagN-B. Instructeur, Jules Boudreau, Chef de département, Alain Gauvin, et Directeur adjoint des services éducatifs, Daniel Boulay félicite le gagnant.



**Meloche Monnex**



**2010 Presidents Award** - received by **Micheal R. Verner**, GSC, Construction Manager (at left in photo), and **Robert J. Keeler** (at right in photo), Project Director of the Atomic Energy of Canada Limited, Point Lepreau Refurbishment project, presented at the April 2010 NBSCETT/SttagN-B AGM, by Society President (centre) David Sheaves, PTech.

( excerpt from the AECL Newsletter.....)

#### **AECL is the president's choice**

The NBSCETT (New Brunswick Society of Certified Engineering Technicians and Technologists) awarded its Presidents Award to AECL's Point Lepreau office. ***This award is presented to a technology employer in the province that encourages the certification of its employees and supports the goals of the NBSCETT.***

AECL was selected because we hire local engineering technicians and technologists to work on the Point Lepreau Refurbishment Project. The majority of the techs. working on the project are members of the Society pursuing their CTech and PTech designations.

"AECL is honoured to be chosen by NBSCETT as its champion. We will continue to support the professional development of our staff by encouraging them to achieve their designations, and enhance their career opportunities within the nuclear industry," said Michael Verner, Manager, Labour Relations, Subcontracts, Training & SJO Facilities.

*Atomic Energy of Canada Limited is a full-service nuclear technology company providing services to nuclear utilities around the world. Established in 1952, AECL is the designer and builder of the CANDU reactors. AECL's 5,000 employees deliver cutting edge nuclear services, R&D support, design and engineering, construction management, specialized technology, refurbishment, waste management and decommissioning in support of CANDU reactor products.*



## NBSCETT / SttagN-B Technology Foundation

The Society's Technology Foundation was established almost 10 years ago to support students of the nationally accredited NBCC-CCNB engineering technology programs which lead to the graduates internationally recognized certification (CTech or PTech).

The Society's Technology Foundation awards at least one \$250.00 scholarship per NBCC-CCNB campus with nationally accredited programs. The Society also awards an annual \$500.00 Richard P. Jackson, CET, Memorial Scholarship to a second year student of the NBCC-Saint John Mechanical Engineering Technology program.

The Society's Technology Foundation is a registered charitable organization, managed and operated by the Society, and all donors receive a RevenueCanada tax credit receipt. To participate in support of the Society's Technology Foundation, members may donate along with their annual membership renewal. Donations may also be presented to the Society by using the form herein, or through the Society website. [www.nbscett.nb.ca](http://www.nbscett.nb.ca)

### NBSCETT / SttagN-B By-Law 17

#### TECHNOLOGY FOUNDATION

#### - CHARITÉ TECHNOLOGIE

The Technology Foundation - Charité Technologie ("the Foundation") is established by the Society to promote the training and education of members and prospective members by providing scholarships, bursaries, grants, or financial assistance to persons attending or proposing to attend any school, college, or university, and undertaking or proposing to undertake any Engineering / applied science technology diploma study in New Brunswick or elsewhere, in programs acceptable to the Foundation. The Foundation may solicit, receive and accept all manner of contributions, gifts, bequests and legacies from any person, firm or corporation.

All donations to the Technology Foundation –  
Charité Technologie are tax deductible.

I, \_\_\_\_\_,

( print name )

hereby direct that my donation of \$ \_\_\_\_\_ be held by the Technology Foundation/ Charité technologie Inc. [Registered Charity #866482334RR0001] for a period of not less than ten (10) years in compliance with subsection 149.1 (1) (e) (B) of the Income Tax Act.

X: \_\_\_\_\_ Mbr #: \_\_\_\_\_ date: \_\_\_\_\_

## CETs working together

**Carl Wilbur**, CET, Energy Co-ordinator, The Moncton Hospital (*at left in photo*), and **Perry Eldridge**, CET, Technical Services Manager for Mount Allison University, stand in front of the 600-horsepower diesel recently donated to Mount Allison University from The Moncton Hospital.

(see story on page 12)



# the Technology Professionals in New Brunswick

New Brunswick Society of Certified  
Engineering Technicians and Technologists

## September 2010

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## 2011 January

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## ANNUAL GENERAL MEETING /

## ASSEMBLÉE GÉNÉRALE ANNUELLE

10:00 HR, SATURDAY, APRIL 30, 2011

PRESIDENTS AWARD LUNCHEON - 12 NOON

AT THE FREDERICTON RAMADA HOTEL

Reception 6-11 pm, Friday evening, April 29, 2011  
at the Society offices, 2-385 Wilsey Road.

# Les spécialistes de la technologie au Nouveau-Brunswick

Société des techniciens et des technologues  
agréés du génie du Nouveau-Brunswick

*If you are interested in helping  
assist in planning and participating  
in special events, or have promotions/  
special activities suggestions for this  
week, please give your professional  
association a call;  
your involvement  
is always welcome!*



**National Technology Week:  
November 1 - 6, 2010**  
**visit: [www.cctt.ca](http://www.cctt.ca)**

*Si vous êtes intéresser à aider planifier  
des événements, assister et participer à des  
événements spéciaux ou à promouvoir/ou  
avez-vous des idées à suggérer pour des  
événements spéciaux pour cette semaine,  
s'il-vous-plaît veuillez communiquer avec le  
bureau de votre association professionnelle.  
Nous pouvons toujours utiliser votre aide.*

**la Semaine nationale de la technologie:  
1 - 6 novembre, 2010**  
**visitez: [www.cctt.ca](http://www.cctt.ca)**

## 40+ années de Succès Agréé

### 2011 May

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### 2011 June

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### 2011 Août

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## Mount Allison University receives generator from The Moncton Hospital

A 600-horsepower diesel generator has been given to Mount Allison University by The Moncton Hospital to help meet the university's emergency energy needs. For the past 40 years, the unit had been used by the hospital for emergency power. However, the 400-kilowatt generator had been deemed redundant equipment and had to be removed from the hospital.

Carl Wilbur, CET, The Moncton Hospital's Energy Co-ordinator, thought the university might need an emergency unit, so he contacted Perry Eldridge, CET, Technical Services Manager for Mount Allison University.

*"We have the same diesel generator in our plant right now," said Eldridge, who is working to increase the university's capacity for emergency power. He said the diesel The Moncton Hospital was giving the university was a perfect fit. "It was a good deal for me and certainly the university is very appreciative."*

When the power goes down, these generators are used to power a heating plant, the kitchen facility and residences, as well as other critical areas of the University facilities.

The unit was shipped out to its new destination in April after weeks of work by the hospital's physical resources team and Mount Allison University.







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### New members

Of the 147 invited, these new members were on hand at the April 2010 Society AGM and were "sworn-in" by President David Sheaves (at left).

**Brendan Bates, CTech**  
**Troy Doyle, CTech**  
**Steve Dubé, PTech**  
**Luc Durepos, PTech**  
**Pierre Fournier, CTech**  
**Misha LeBlanc, CTech**

President David Sheaves (at left) presented 25 year member wall certificates to:  
**Donald Belanger, PTech**  
**Gerald Deveau, CET**  
**Jean-Guy Hebert, CET**  
**Bradley Slipp, CET.**



The **40 Year member** present at the April 2010 AGM, for the special wall certificate and 40 year Society lapel pin, was long time volunteer for the association **Gary Gillis, PTech (#68)** [at left], received this recognition from President David Sheaves.

# Notes From My Recent Visit To Iqaluit

Bob Clarke, CET [R. Clarke Designs Ltd.]

Iqaluit, the capital of Nunavut sits on south facing slopes along the northern shore near the inner end of Frobisher Bay on Baffin Island. I have made four separate trips to Iqaluit since 2006 for the purpose of teaching heating and ventilation and R-2000 related courses to private contractors as well as technical Staff of the City and Territorial governments. My most recent 12 day visit spanned the 2010 Canada Day; I took a few pictures which I thought might be of some interest NBSCEIT members.

We in New Brunswick and Nova Scotia boast of the Bay Fundy's famous world's highest tides; well perhaps you were not aware Frobisher Bay the world's second highest tides. The effect of these high tides is truly evident in that portion of the bay immediately in-front of Iqaluit. During low tide the cove in front of the City is completely drained making it impossible for annual parade of summer supply ships to tie up at shore in front of the City. When I arrived in late June, ice still filled the Bay as far as the eye could see from my bay view hotel window. I've been told the far mountainous shore of the Bay (visible from my window) is 28 km. from Iqaluit. With the retreating tide ever breaking ice is left to rest on the sand and gravel sea bed until in six to twelve hours returning water again raises and tumbles the ice now carrying bits of the sand and gravel bed – visually not that appealing.

In a single day during my first week in the City, the tide assisted by a favourable wind completely removed the winter ice from in front of the City; and the locals were heard to say “summer has arrived”. The next morning the first oil tanker was seen at its off-loading anchorage, after 3 days it was gone and the second arrived. It was as though the ships were outside the bay waiting for the ice to move out.

All supplies from groceries to building materials to vehicles arrive by ship, several of which arrive on schedule from early July through to late August. Perishable are flown in almost daily from Montreal and Ottawa.

The capital of Nunavut, Iqaluit has a population between 6600 and 7000, a mix of Inuit and southerners. The city is a primary service center of the Nunavut government as well as for the many resource related industry activities located within the remote vastness of Canada's north.

The City of Iqaluit is constructed on a terrain consisting of a mix of exposed bedrock and tundra covered permafrost. As explained to me, the top 3 to 4 feet of the frozen tundra is subject to a freeze-thaw cycle; effecting the foundation design of all local buildings.

Much of the newer residential development has happened on the bedrock slopes over-looking the older lower portion of the city. The single family and multi-family homes stand over the slopes on steel posts anchored into the bedrock. The homes are kept well free of the ground so the structural footprint is as small as possible on the natural terrain. The homes have no basements as we would know them; planning must include for utility and storage spaces. All homes also contain a “sea-lift” room, intended to contain those non-perishable items intended to do the family through the winter until arrival of the supply ships the next summer.

Much of the older portion of Iqaluit is constructed on the tundra along the shore of the Bay. Many of the earlier buildings were constructed on posts with main floor well above ground with perimeter skirting covering the posts to ground surface. The perimeter skirting prevented adequate venting beneath the buildings, allowing the heat loss from the building to affect the stability of the permafrost. The result, buildings with no horizontal or parallel lines!

More recent structures in the permafrost areas are built on steel posts set well below the active layer of the permafrost. As I understand it, the calculation involves the weight of the building, the surface area of the 5” to 6” diameter steel post, and the adhesion forces of the permafrost against the steel post; resulting in the number of posts necessary to support the building and the depth of post penetration into the permafrost. You will notice in the pictures the wire-mesh skirting is designed to keep intruders from beneath the buildings while allowing heat lost from the building to dissipate without affecting the permafrost.

There have been a few more recent buildings constructed with slab-on-grade foundations with the use of thermal siphon technology to protect the permafrost. In these structures, the grade slab is well insulated to minimize heat loss through the floor while a thermal-siphon, grid of piping beneath the slab, dissipates residual heat to a series of finned stand-pipes located next to the structure.



I mentioned much of the population is comprised of southern with a very high percentage of those being maritimers. The population is relatively young as most southern choose to retire south. Many southerners working in Iqaluit actually maintain property in the south which they visit on vacations. Of the people I've met in Iqaluit they love the area and the challenge of working in the area; they like the "small town" friendly atmosphere, everyone seems to know everyone.

On my recent visit, I overheard a Nova Scotian telling another guy that he had "moved to Iqaluit for two weeks eleven years ago". There are a lot of students working there paying off student loans. Wages are high as is the cost of living. I would suggest any young person with a technical education, interested in an adventure and an opportunity to gain a broad range of experience, a move to Iqaluit would deserve some consideration. Check out the City of Iqaluit on the internet as well as on Google Earth.

*Iqaluit Photo #1 – by: Bob Clarke*

An Iqaluit office building constructed on steel post foundations bearing in permafrost, note mesh skirting to allow air passage but not animals beneath building; also note open metal stair with grate style treads to resist collection of snow.





*Iqaluit Photo #2 – by: Bob Clarke*

The Nunavut Justice Building is constructed on a site of exposed bed-rock in which a flat plateau was created to receive a foundation of steel posts on shallow concrete piers.



*Iqaluit Photo #3 – by: Bob Clarke*

A modest 3 bedroom bungalow with a shallow enclosed crawlspace beneath the main floor, all mounted clear of the ground on 3 beams and 3 rows of steel posts set into permafrost. In Iqaluit a modest bungalow such as this may cost ½ a million. Because there is no freeze/thaw cycle during cold months building materials are undamaged by moisture when left outside in the snow.



A 4 storey wood frame condo structure on a well insulated concrete slab above permafrost; note the thermal siphon standpipes which dissipate heat collected from beneath the insulated slab in order to maintain stability of permafrost.



Ronald J G LeBlanc, PTech, membre du Conseil de Certification de SttagN-B et ancien Assistant Registraire parle avec les étudiants qui vont terminer le cours de Technologie de l'ingénierie de bâtiment, CCNB Campus de Bathurst. (gauche à droit) André Siveret, Jason Robichaud, Ryan Ferguson (gauche à droit autour de la table) Jeff Hachey-Doucet, Anicet Kenfak-Dongoh, R.J.G. LeBlanc, Jules Boudreau, Instructeur, Danielle Clément, (assis à la table) Sidy Barry.



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as well as the **national Technology Ring** order form.



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