

Platforms and Histories and the Professional Activities of the Engineering Nominees For Election to the Council

RAMON C. CAIRO, P.Eng.

EDUCATION B. Sc. Civil Engineering, Divine Word University, 1986

Diploma in Project Management, Red River College, 2009

ASSOCIATION Member, APEGM 2008 to present

ACTIVITIES Past President, APEGM Filipino Members Chapter

OTHER Member, American Society of Civil Engineers, 1999 to present

ENGINEERING Professional Engineer, Alberta, 2008 to present

ACTIVITIES Professional Engineer, Saskatchewan, 2008 to present License Civil Engineer, The Philippines, 1987 to present

Member, The Canadian Society for Civil Engineering 2008 to present Member, Structural Engineering Institute, USA, 2004 to present

EMPLOYERS

GRADUATION

SINCE

RS PTC Construction Ltd. Director of Engineering & Construction, 2007 to present

City of Winnipeg, Structural Plan Examiner, 2006 to 2007 FWS Construction Ltd. Structural Designer, 2005 to 2006

NPEI Construction Inc. USA, Project Manager/Structural Engineer, 1994 to 2004

Al Haramain Company, Saudi Arabia, Bridge Engineer, 1991 to 1994

Unimasters Conglomeration Inc., Philippines, Structural Engineer, 1989 to 1991 Philippine Department of Public Works & Highways, Civil Engineer, 1988 to 1989 Tacloban City Engineer's Office, Philippines, Project Inspector, 1987 to 1988

QUESTIONS FROM THE NOMINATING COMMITTEE

1) In your view, what is the single most important issue facing the professions today, and why?

In my personal view, attracting the best and brightest Canadian high school graduates to pursue engineering degrees and eventually careers in engineering in order to have a steady and continuous pool of qualified and competent engineers is one of the most important issues facing the profession today.

and why? Two main reasons why few Canadian high school graduates pursue engineering are:

- a) Lack of emphasis on math and science to kids from the early age including problem solving and analytical skills development
- b) Lack of information dissemination to high school graduates and to the public in general the privilege and prestige of being an engineer who are entrusted by society to make life comfortable and safe thru their many creations.

2) Why is self-regulation and the responsibility given to us by government and the public important?

Self-regulation and the responsibility given to us by the government and the public is very important to make sure that only competent and qualified engineers should be able to practice engineering. As the profession entrusted by society to ensure public safety and to protect the environment amidst the fast pace utilization of our natural resources, we must guarantee that only competent and qualified engineers be given the privilege to practice engineering. It is a huge responsibility that should be taken seriously as it involves possible loss of property, life, or both.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

The public expects that engineers make safety as the primary concerns in their practice of engineering followed with economy and the protection of the environment. They also expect that the engineers they are engaging in their projects are highly qualified and competent having been licensed by a self-regulating profession.

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FRED CROSS, P.Eng.

EDUCATION

B. Sc. Electrical Engineering, University of Manitoba, 1976

ASSOCIATION ACTIVITIES

Professional Engineer, APEGM, 1978 to present

OTHER ENGINEERING ACTIVITIES Senior Member, IEEE

EMPLOYERS SINCE GRADUATION Alcatel-Lucent Canada, Systems Engineer - 2006 to 2012 Alcatel Canada, Systems Engineer - 2002 to 2006

*Newbridge Networks, Systems Engineer - 1997 to 2000

Province of Manitoba, Director of Telecommunications - 1995 to 1997

Manitoba Telephone System, Manager, Customer Systems

Engineering - 1995 to 1997

Manitoba Telephone System, Special Services Engineer - 1976 to

1994

*Newbridge Networks was purchased by Alcatel in 2000. Alcatel purchased Lucent in 2006. My job function was largely the same through these transitions.

QUESTIONS FROM THE NOMINATING COMMITTEE 1) In your view, what is the single most important issue facing the professions today, and why?

The APEGM task force on strategic priorities identified public perception as the first of its three high priority items. Individual citizens routinely encounter doctors and lawyers, but may well go throughout their entire lives without ever consulting an engineer or geoscientist. We need to increase the public's awareness of what we do and how we manage ourselves.

2) Why is self-regulation and the responsibility given to us by government and the public important?

Self-regulation is both an enormous privilege and an even larger responsibility. It is essential that we not only manage ourselves in accordance with the engineering and geoscience legislation, but that we ensure that we are seen to be doing so by the public.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

I expect that most members of the general public would have a difficult time articulating what we do. However, if we could engage people in a discussion about what we do, I would think that the public's expectation would gravitate to the public safety aspects of our profession.

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RUTH EDEN, P.Eng.

EDUCATION M. Sc. Structural Engineering, University of Manitoba, 2002

B. Sc. Civil Engineering, University of Manitoba, 1988

ASSOCIATION ACTIVITIES

Professional Engineer, APEGM, 1990 to present Member, APEGM Public Awareness Committee Member, APEGM Women in Engineering Committee Numerous presentations to schools on civil engineering

OTHER ENGINEERING ACTIVITIES Member of CSA S6 (Canadian Highway Bridge Design Code) Section 9 Technical

Committee

Member of CSA S6 Section 16 Technical Committee

Vice-Chair of Transportation Association of Canada Structures Standing Committee

Member of ISIS Canada Research Management Committee
Past President of American Concrete Institute, Manitoba Chapter

Past Chair of Canadian Society of Civil Engineering Conference Fund Raising

Committee held in Winnipeg

Numerous presentations at conferences, meetings and workshops on bridge

engineering

EMPLOYERS SINCE Manitoba Infrastructure and Transportation, Director of Structures Design and

Construction

GRADUATION Manitoba Floodway Authority, Manager of Bridges and Roads

Manitoba Transportation and Government Services, Research, Materials and Standards

Engineer

Manitoba Highways and Transportation, Construction Engineer

QUESTIONS FROM THE NOMINATING COMMITTEE

1) In your view, what is the single most important issue facing the professions today, and why?

For me, the single most important issue facing the engineering profession today is the slow trend away from a profession towards more of a commodity that can be publically traded. As a result of this shift, it is becoming more common for some firms to not undertake specific types of engineering work because of lower corporate risk tolerance. On the other end of the spectrum, we have also been exposed to instances in Canada where professional ethics have not been followed.

2) Why is self-regulation and the responsibility given to us by government and the public important?

Self-regulation and the responsibility granted to us by government, specifically, is extremely important for the association to maintain. The government and the general public have entrusted the members of our professional association with the responsibility of maintaining our ethical standards and regulating our members. If our association was not self-regulated, the government would, in all likelihood, establish an oversight board consisting of members outside of the engineering and geoscience professions.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

First and foremost, the public expects safety without compromise and ethical behavior in all professional decisions. After safety and professional ethics, I believe that they expect engineers to ensure quality standards are maintained in the most cost-effective and efficient means possible.

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BOGNA GRYC, P.Eng.

EDUCATION M.Sc. Mechanical Engineering, Technical University of Warsaw,

Poland, 1989

ASSOCIATION ACTIVITIES

Professional Engineer, APEGM, 1997 to present

OTHER ENGINEERING ACTIVITIES Member of "Friends of Engineering", University of Manitoba

EMPLOYERS SINCE GRADUATION Price Industries - Senior Design Engineering Manager

- Product Development Manager

Engineering ManagerProduct Designer

Greensteel Ltd. -Project Coordinator

QUESTIONS FROM THE NOMINATING COMMITTEE 1) In your view, what is the single most important issue facing the professions today, and why?

In the world:

Technology needs to be available across the world so there are no underprivileged nations and no areas detached from the modern technology.

Locally:

Maintain high standards of engineering education and create quality local engineering jobs so Manitoba remains an attractive location for those who want to practice engineering here.

2) Why is self-regulation and the responsibility given to us by government and the public important?

To maintain consistent engineering standards for all practicing members, so their professional ethics and quality of work performed cannot be compromised. Also to facilitate and enforce continuous professional development for all members so they can stay up-to-date with the technological advancements in their profession.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

The public expects that:

- Engineers follow strict code of ethics so their work cannot compromise the safety of the public and their best interest.
- Engineers continue developing their skills as the technology advances.
- Engineers serve their communities by using their professional judgment while providing their services.

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KASSEM HARB, P.Eng.

EDUCATION MBA, University of Manitoba, 2002

B. Sc. Civil Engineering, University of Manitoba, 1989

ASSOCIATION ACTIVITIES

Professional Engineer, APEGM, 1994 to present

OTHER ENGINEERING ACTIVITIES Manitoba Hydro Professional Engineers Association (MHPEA), Past President -

2012 to 2013

MHPEA, President - 2010 to 2012

MHPEA Professional Relations Committee. Executive Liaison - 2010 to 2012

MHPEA, Vice President - 2009 to 2010

MHPEA Safety Committee. Executive Liaison - 2009 to 2010

MHPEA, Councillor - 2003 to 2004

MHPEA Safety Committee, Member - 2001 to 2004

EMPLOYERS SINCE GRADUATION Manitoba Hydro, Project Engineer/Manager -1999 to present Centra Gas Manitoba, Project Engineer/Manager - 1992 to 1999 Harb Management & Services, Structural Engineer - 1991 to 1992

Frovich & Associates, Structural EIT - 1989 to 1991

QUESTIONS FROM THE NOMINATING COMMITTEE 1) In your view, what is the single most important issue facing the professions today, and why?

The single most important issue facing the professions is the recognition of engineering and the lack of public knowledge about engineering. This is possibly due to the fact that the public is not fully educated about engineering.

2) Why is self-regulation and the responsibility given to us by government and the public important?

Self- regulation and responsibility given to engineering is important in order to maintain our own ability to regulate ourselves and promote changes to the Act that will be in the best interest of the public and the profession. Having a separate entity that may lack knowledge about engineering regulates us may pose issues and undue harms to the members and profession as a whole.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

The public's expectation from the practices of engineering and geoscience is:

- to exercise and uphold high standard and professionalism in their practices
- be involved and participate in communities
- perform all of its designs with public safety in mind and,
- promote the design and use of environmentally friendly products in buildings.

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YURIEM NODARSE SOLER, P.Eng.

EDUCATION IEEQ Program, University of Manitoba, 2005

Civil Engineering Degree, Superior Polytechnic Institute "Jose Antonio Echevarria",

Havana, Cuba, 1995

ASSOCIATION ACTIVITIES

Professional Engineer, APEGM, 2007 to present

Past 5 years - member and part of the Board of Directors of the IEEQ Alumni Inc. group. Conducted several presentations to newcomers and organized fundraising dinners and

workshops. Participated in APEGM networking events.

OTHER ENGINEERING ACTIVITIES Offer mentorship to several internationally educated engineers in the process of getting

their professional designation in Manitoba.

EMPLOYERS SINCE GRADUATION Manitoba Hydro, Structural Designer - 2007 to present ND Lea Engineers and Planners Inc., EIT - 2005 to 2007

IEEQ Program at University of Manitoba, Student - 2004 to 2005 Building Systems Design Solutions (BSD) Ltd., Draftsperson - 2004

Architects of the Community, Havana, Cuba, Structural Designer -1998 to 2001

Union of Caribbean Construction Companies (UNECA SA), Havana, Cuba, Site Designer

- 1995 to 1998

QUESTIONS FROM THE NOMINATING COMMITTEE

1) In your view, what is the single most important issue facing the professions today, and why?

- Public perceptions: Public perception of engineers is not the same as doctors and lawyers. This has an impact on how many students enter the Faculty of Engineering. In my opinion, they are the same. The difference being engineers don't assess, heal or maintain someone's physical or mental well-being. Engineers analyze, repair, and maintain our physical world which has a profound effect on the well-being of all living creatures. We problem-solve like the lawyers, but we also innovate and create. This professional parity and image needs to be strengthened in the public mind.
- Understanding APEGM's importance: Many internationally educated engineers don't fully understand APEGM's role and importance as a regulatory body. Their view of APEGM tends to be very limited; a simple (and costly) expense, an annual fee required to maintain a designation, nothing more. This has to change. APEGM needs to embrace these members, get them more involved, informed and active in the oversight of our membership.
- Females in the profession: The number of females entering engineering has increased over the years but is still considered low compared to other countries. Cuba for example, has a 50/50 ratio of males and females entering the field, a best-in-class world standard that APEGM should adopt as a goal.

2) Why is self-regulation and the responsibility given to us by government and the public important?

It is important because it protects the public from incompetent and unethical practitioners. It also enables professionals with the necessary expertise and ethics to control the future direction and standard of quality for the professionals of tomorrow.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

The public expects engineers and geoscientists to make decisions that are in the best interest of the general public and that their decisions are based on safe, sound, economical and environmentally friendly principles that ensure best value for the taxpaying public.

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ROGER REMPEL, P.Eng., FEC

EDUCATION

B. Sc. Civil Engineering (with Distinction), University of Manitoba, 1991

ASSOCIATION ACTIVITIES

Professional Engineer, APEGM, 1993 to present

APEGM Councillor - 2010 to present

Chairperson: APEGM Advocacy Task Force (ATF) - 2012 to 2013

Committee Member: APEGM Public Interest Review Committee (PIRC) - 2014 Committee Member: APEGM Council Strategic Plan Committee - 2013 to 2014

Committee Member: APEGM Executive/Finance Committee - 2014

OTHER ENGINEERING ACTIVITIES Alternate Warden: Ritual of Iron Ring Camp 8 - 2009 to present

Committee Member: ACEC Manitoba (formerly CEM) Energy, Science and

Technology Committee - 2013 to present President: ACEC Manitoba - 2006 to 2007 Vice President: ACEC Manitoba - 2005 to 2006 Director: ACEC Manitoba - 2000 to 2004

Chair: ACEC Manitoba Public Awareness Committee and Awards Event Committee

- 1998 to 2004

EMPLOYERS SINCE GRADUATION Stantec Consulting, Senior Environmental Engineer - 2010 to present

TetrES Consultants Inc. - Managing Principal - 1991 to 2010

QUESTIONS FROM THE NOMINATING COMMITTEE

1) In your view, what is the single most important issue facing the professions today, and why?

The largest challenge facing our professions is the need for effective and prioritized response to the growing impacts and costs induced by intensified extreme weather events and expanded operating conditions resulting from climate change. Existing codes and standards are currently predominantly based on historical climate, often without consideration of climate shifts that can induce wider ranges of future operating conditions for the systems we design today.

As higher incidents of infrastructure damage occur when these systems are exposed to conditions they were not designed for, the public will look to our professions to adapt in a manner that protects the safety of the public and maintains the expected service life of society's engineered assets. Our designs will likely be challenged by end-users and insurance companies in cases where our design has not considered these expanded operating conditions. If this challenge is not met, we risk diminishing the public trust and confidence in our professions.

2) Why is self-regulation and the responsibility given to us by government and the public important?

Self-regulation is important because it allows government to maintain control over the practice of the professions and their services, without a need for the government itself to maintain the specialized expertise that would be essential in regulating those professions directly. In the case of the many disciplines of professional engineering and geoscience, the responsibility and required expertise to regulate is maintained by a requirement that our self-regulating body develops, maintains and enforces rules and standards. These rules and

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standards, including obligations such as regular CPD reporting, combine to ensure that the services by the regulated professions are provided in a competent and ethical manner.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

Public expectations of our professional practices are high – such that the public expects that our response to challenges will always be met with solutions that will work safely and in a manner that will not damage the environment. We are relied upon by society as problem solvers and solution providers, and the public simply expects engineers and geoscientists to apply their specialized expertise to develop solutions that continue to be effective and safe in a rapidly changing global environment.

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STEVEN SPRY, P.Eng.

EDUCATION

Bachelor of Engineering (Mechanical), Lakehead University, 1995 Diploma, Engineering Technology (Mechanical), Sault College, 1993

ASSOCIATION ACTIVITIES

Professional Engineer, APEGM, 1999 to present Professional Engineer, NAPEGG, (NWT) 1997

OTHER ENGINEERING ACTIVITIES Councillor - Association of Professional Engineers, Geologists & Geophysicists of NWT (NAPEGG) Served portion of term in 1999 before moving to Winnipeg in late 1999.

Professional Development Committee (NAPEGG) 1995 to 1999, Chair in 1999

Certification Board Member, CTTAM - 2005 to 2008

Young Achievers Award, NAPEGG - 1998

Certified Engineering Technologist (CET) - CTTAM Project Management Professional (PMP) - PMI

2004 Canada's Energy Efficiency Awards: Co-Recipient - Powersmart™

Compressed Air System - Plant 6 - Standard Aero

EMPLOYERS SINCE GRADUATION

Manitoba Housing, Director Prof. Services Unit; Executive Director of Asset Mgmt; Chief Operations Officer; A/Chief Executive Officer) - 2009 to present Standard Aero Ltd. (Senior Project Manager, Facilities Engineer, Eng/Program Manager, Director of Tech. Development) - 1999 to 2009

A.D. Williams Engineering Inc. (Mechanical Engineer) - 1998 to 1999

UMA Engineering Ltd. (Mechanical Design Engineer) - 1995 to 1998

QUESTIONS FROM THE NOMINATING COMMITTEE

1) In your view, what is the single most important issue facing the professions today, and why?

- Renew the attractiveness of the professions as a desired career path.
 Sustainment of the professions will be largely dependent on the supply of human resources. What drove you to study and practice the profession(s)?
 We need to instill a similar drive in today's generation.
- Continuous improvement on support of foreign-trained professionals.
- 2) Why is self-regulation and the responsibility given to us by government and the public important?

To ensure that high standards are met in those who can practice the professions, thus ensuring public safety and well-being are held paramount in the profession. Those who practice the profession are held accountable.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

Effective, efficient, safe outcomes using best practice that can be trusted and relied upon. Public expects that it be done right the first time, all the time; and that engineers and geoscientists are bonafide subject matter experts in their field(s) when affixing their seal or endorsing with the P.Eng/P.Geo.

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BRETT TODD, P.Eng.

EDUCATION B. Sc. Electrical Engineering, University of Manitoba, 1986

ASSOCIATION ACTIVITIES

Professional Engineer, APEGM, 1988 to present Member, Salary Review Committee, 1999 to 2003

EMPLOYERS SINCE GRADUATION ABB Inc, Business Development Manager, Transformer Services - 2012 to present

Hatch, Electrical Department Manager - 2009 to 2012

CG Power Systems Inc./Pauwels Canada Inc., Sales Manager -

2001 to 2009

Wardrop Engineering Inc., Principal and Electrical Department

Manager - 1988 to 2001

Manitoba Hydro, EIT - 1986 to 1988

QUESTIONS FROM THE NOMINATING COMMITTEE 1) In your view, what is the single most important issue facing the professions today, and why?

Our profession's main issue is the same as virtually all organizations face today - how do we attract, engage and retain good people?

2) Why is self-regulation and the responsibility given to us by government and the public important?

In exchange for the benefits of professional status, the regulatory body of any profession is expected to develop, implement, and enforce various rules. These rules are designed to protect the public by ensuring that services from members of the profession are provided in a competent and ethical manner.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

Projects are more in the public eye than in past decades. The expectations of our profession from the public have become much more rigid, as they have for many organizations. Now there is often "zero tolerance" for project overruns and errors. The public is no longer prepared to take on any risks.

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MITKO TOMOV, P.Eng.

EDUCATION Mechanical Engineer, St. Cyril and Methodius, Skopje, 1990

ASSOCIATION Pr ACTIVITIES Me

Professional Engineer, APEGM, 2008 to present Member, APEGM Awards Committee 2008 to 2010

OTHER ENGINEERING ACTIVITIES Member, IEEQ Alumni Steering Committee Senior Member, Society of Manufacturing Engineers Manitoba Schools Science Symposium judge - 2008

Manitoba Robotic Games judge, 2008

EMPLOYERS SINCE GRADUATION Monarch Industries, Process Engineer New Flyer, Design Engineer APR Industries, Manufacturing Engineer

Metal Istok, Skopje - Production Manager
ZGM Engineering, Skopje - Production Manager

QUESTIONS FROM THE NOMINATING COMMITTEE 1) In your view, what is the single most important issue facing the professions today, and why?

The most important issue facing the professions today is to think globally and face the challenges of the new era. Closing in our own egos is not a formula for progress, it is a formula for disaster.

2) Why is self-regulation and the responsibility given to us by government and the public important?

Self-regulation is important because that is the only way professionals can overcome the shadows from the past and take responsibility for improving humanity. Civilization was created by engineers and the engineers are the ones who can provide a brighter future.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

The first and most important expectation is to provide safe practices where public safety will be in first place. The other expectations are technological progress and to continue to make Canada a place for a good life for generations to come.

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OWEN VAN WALLEGHEM, P.Eng.

EDUCATION Bachelor of Engineering (Mechanical), Carleton University, 2005

ASSOCIATION ACTIVITIES

Professional Engineer, APEGM, 2011 to present

Member, APEGM Public Awareness Committee, 2008 to 2011

Author, "Attract, Engage and Develop the Next Generation", APEGM Keystone

Professional, Spring 2011

Author, "Keys to Developing Young Engineers", APEGM Keystone Professional, Spring

2014

OTHER ENGINEERING ACTIVITIES Professional Engineer, PEO, 2012 to present Director, ACEC Manitoba Board, 2011 to 2013

Member, ACEC Manitoba Young Professionals Committee, 2010 to present (Chair,

2011 to 2013)

Member, ACEC Manitoba Professional Development Committee, 2012 to 2014 Manitoba Rep., ACEC Canada Young Professionals Network, 2011 to 2013 Member, WCS-AWWA Young Professionals Committee, 2012 to 2014

Member, Rotary Career Symposium Engineering Innovation Challenge Committee,

2008 to 2011

Presenter, "City of Steinbach Wastewater Lagoon Expansion", WCW Conference, 2012 Co-Presenter, "Jar Testing Fundamentals Workshop", MWWA Annual Conference, 2011 Co-Presenter, "Attract, Engage and Develop the Next Generation", WCW Conference, 2011

EMPLOYERS SINCE GRADUATION Associated Engineering, Project Engineer - April 2014 to present AECOM Canada Ltd., Water/Wastewater Engineer - July 2006 to March 2014

QUESTIONS FROM THE NOMINATING COMMITTEE 1) In your view, what is the single most important issue facing the professions today, and why?

One of the most significant issues facing our profession is diversity. For example, in Manitoba, women make up 51% of the population, and 15% of Manitobans identify as Aboriginal. In the engineering profession in Manitoba, however, these groups are not proportionally represented. Progress has been made to start reducing these imbalances, but there is still a lot of work to be done.

2) Why is self-regulation and the responsibility given to us by government and the public important?

The responsibility to self-regulate is one of the key tenets of a Profession. It is important for government and the public to have input and some level of control over the profession. Ultimately, though, no group understands the concepts, values, and issues specific to engineering well enough to make the most important decisions as engineers themselves.

3) What do you think the public's expectation is from the practices of engineering and geosciences?

The public's expectation is that collectively, we as engineers are:

- making sound, ethical decisions in the public's best interests
- creating products, systems and solutions to improve their day-to-day lives
- building safeguards to protect people and the environment from harm
- playing a key role in developing solutions to the world's biggest problems

That might sound a bit grandiose, but if we engineers don't do these things, who will?

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