



# 2016 MALSCCE Convention

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## *Elevating Our Profession: Pathways to Leadership*

Sponsored by 2015-2016 MALSCCE Sustaining Members:  
Carlson Software, Eastern Topographics, Eljen Corporation, Keystone Precision Instruments,  
Maine Technical Source, Spiller's, and Waypoint Technology Group



### **Hotel 1620 at Plymouth Harbor**

180 Water Street  
Plymouth, MA 02360

**Friday and Saturday  
March 18 & 19, 2016**

7:00 AM - 10:00 PM Friday  
7:00 AM - 5:00 PM Saturday

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Featuring:

- **In-depth Business Sessions**

Including Developing a Project from the Ground Up, Laser Scanning Workshop, Construction Layout – Best Practices for Vertical Construction, CI/ASCE 38-02 & Subsurface Utility Engineering (SUE), Steps to Setting up your Unmanned Aircraft System Department, Working with Carlson Survey & SurvCE, There is No “ME” in Meditation, Leica Captivate, Wetlands, and Boundary Retracement Using Modern Tools

- **Convention Exhibits**

Showcasing the latest technologies and services

- **Surveyor-in-Training and PLS Exam Refresher Courses**

Space is limited, so register today

- **Networking Breaks, Benefit Auction, Beer Tasting and more!**

Learn from your peers

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**The 2016 MALSCCE Convention is brought to you by the  
Cape Cod Chapter**

**Massachusetts Association of Land Surveyors and Civil Engineers**  
The Engineering Center, One Walnut Street  
Boston, MA 02108-3616  
[www.malsce.org](http://www.malsce.org)

# Schedule of Events

## 2016 MALSCE Convention

March 18 & 19, 2016

### Friday, March 18

|                     |   |                           |  |
|---------------------|---|---------------------------|--|
| 7:00 AM - 4:30 PM   | Registration Desk Open  | 4:15 PM - 5:00 PM         | Session 6B: <b>Wetlands Protection Act Review</b>  |
| 7:30 AM - 8:00 AM   | Opening Remarks   | 5:00 PM - 6:00 PM         | MALSCE Education Trust Benefit Auction/Reception   |
| 8:00 AM - 4:30 PM   | Exhibit Hall Open   | 6:00 PM - 6:30 PM         | Break  |
| 8:30 AM - 9:30 AM   | Session 1A: <b>Developing a Project from the Ground Up</b>                        | 6:30 PM - 8:00 PM         | Dinner   |
| 8:30 AM - 9:30 AM   | Session 1B: <b>Laser Scanning Workshop</b>  | 8:00 PM - 10:00 PM        | Beer Tasting   |
| 9:30 AM - 9:45 AM   | Break   | <b>Saturday, March 19</b> |  |
| 9:45 AM - 11:15 AM  | Session 2A: <b>Construction Layout – Best Practices For Vertical Construction</b> | 7:00 AM – 5:00 PM         | Registration Desk Open   |
| 9:45 AM - 10:45 AM  | Session 2B: <b>CI/ASCE 38-02 &amp; Subsurface Utility Engineering (SUE)</b>       | 7:00 AM - 8:00 AM         | Breakfast/Board of Director's Meeting  |
| 11:00 AM - 12:00 PM | Session 2C: <b>NESS Annual Meeting</b>  | 8:00 AM - 5:00 PM         | <b>Surveyor-in-Training and Professional Land Surveyor Refresher Courses</b>             |
| 11:30 AM - 12:00 PM | Session 3A: <b>Vendor Quick Fire Session</b>                                      | 8:00 AM - 10:15 AM        | <b>Boundary Retracement Using Modern Tools</b>   |
| 12:00 PM - 1:30 PM  | Lunch with Exhibitors   | 10:15 AM - 10:30 AM       | Break  |
| 1:30 PM - 2:45 PM   | Session 4A: <b>Steps to Setting Up Your Unmanned Aircraft System Department</b>   | 10:30 AM - 12:00 PM       | <b>Boundary Retracement Using Modern Tools (continued)</b>                               |
| 1:30 PM - 2:45 PM   | Session 4B: <b>Working With Carlson Survey 2016</b>                               | 12:00 AM - 1:00 PM        | Lunch  |
| 2:45 PM - 3:00 PM   | Break   | 1:00 PM - 5:00 PM         | <b>Surveyor-in-Training and Professional Land Surveyor Refresher Courses (continued)</b> |
| 3:00 PM - 4:00 PM   | Session 5A: <b>There is No "ME" in Meditation</b>                                 | 1:00 PM - 3:00 PM         | <b>Boundary Retracement Using Modern Tools (continued)</b>                               |
| 3:00 PM - 4:00 PM   | Session 5B: <b>Working With Carlson Surv CE</b>                                   | 3:00 PM - 3:15 PM         | Break  |
| 4:15 PM - 5:00 PM   | Session 6A: <b>Leica Captivate</b>  | 3:15 PM - 5:00 PM         | <b>Boundary Retracement Using Modern Tools (continued)</b>                               |

### Reserve exhibit space for your company!

Download the [2016 MALSCE Convention Exhibit Space Rental Agreement](#).

### Advertise in the convention booklet or become a sponsor!

Promote your company's products and services to convention attendees and/or show you support MALSCE by advertising in the convention booklet or becoming a convention sponsor. Download the [2016 MALSCE Convention Advertising and Sponsorship Registration Form](#) to learn more.

### Enter the 2016 Plan Contest!

Award-winning plans will be displayed at the 2016 MALSCE Convention and noted in the MALSCE member newsletter. Learn more by downloading the [2016 MALSCE Plan Contest Entry Form](#).

### Donate an item for the auction to benefit the MALSCE Education Trust!

To donate an item, simply bring it to the registration desk at the convention by 12:00 PM on Friday, March 18. If you wish to donate an item but cannot attend the convention, contact Rich Keenan at 617/305-4110.

### Reserve your overnight room before Friday, February 18th!

To reserve an overnight room at the Hotel 1620 for Thursday or Friday, March 17 and 18, call 508/747-4900 before February 18th and ask for reservations. Be sure to mention that you are attending the 2016 MALSCE Convention when reserving your room to receive the discounted rate of \$109 per night plus tax (single or double occupancy).

# Convention Sessions

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## 2016 MALSCE Convention

March 18 & 19, 2016

### Friday, March 18

8:30 AM - 9:30 AM

#### Session 1A – **Developing a Project from the Ground Up**

The western gateway to the Fenway, Pierce Boston will be a mixed-use tower built to house 109 condos, 240 rental units and over 20,000 square feet of street-level retail space. Hear from the developer who acquired the property, the architect who was involved in the design and permitting and the construction manager who is tasked with erecting this high rise building.

#### **Leslie Cohen, Principal & Chief Operating Officer, Samuels and Associates**

Leslie Cohen is the COO of Samuels & Associates, an award winning Boston-based developer of commercial and residential real estate. Leslie is responsible for executing the strategic vision of the firm across numerous multi-billion dollar developments in Boston and the surrounding communities. Since joining Samuels & Associates in 2002, she has successfully overseen the rise of major projects like Pierce, a 30-story luxury residence in The Fenway and Continuum, a pioneering mixed-use development in the heart of North Allston, MA.

Leslie serves as the President of CREW Boston (formerly NEWiRE); she is also a member of ULI and active on the local and national level, while also serving as a gavel member on the NAIOP board. Cohen serves on the building committee at the West End House in Allston and volunteers at the Heath School. In 2013, Leslie was selected as a Boston Business Journal's 40 under 40 honoree, and in 2014 she was chosen as a recipient of Bisnow's 2014 Top 50 women in commercial real estate award.

#### **Barry Gehron, PE, Senior Project Manager, John Moriarty Associates**

Barry is the senior project manager for construction of The Point. With JMA for 30 years, with 15 of those years on downtown Boston projects. Barry's prior employment was with Stone & Webster Engineering Corporation, Energy Resources Co. and Ebasco Services.

His most notable projects with JMA include 111 Huntington Avenue (Boston Properties), Charles River Plaza (Marcus Davis Partners), Atlantic Wharf (Boston Properties), Boylston West (Samuels & Associates). All of these as a senior project engineer.

Barry is also Registered PE (Civil) in Massachusetts, holds a Construction Superintendent's license in Massachusetts, and is a LEED accredited professional.

#### **Adrian LeBuffe LEED AP, Senior Project Manager, CBT Architects**

Adrian is a Senior Associate and Senior Project Manager at CBT. His work ranges from academic and civic facilities to residential and mixed-use buildings. Adrian has managed award-winning projects that require highly technical integration from multiple disciplines with structural and technical design challenges such as the Modern Theatre at Suffolk University and Esteves Hall at Harvard Business School. Currently he is managing the Pierce Boston for Samuels & Associates, Pier 4 Phase III for Tishman Speyer and projects for several longstanding Academic clients. He is a Thesis Adviser for Suffolk University's New England School of Art and Design and has served as a guest juror at RISD, Northeastern and the BAC. He is the Vice-Chairperson of the Winchester Design Review Committee and an active member of the Winchester Central Business District Sub-Committee.

8:30 AM – 9:30 AM

#### Session 1B – **Laser Scanning Workshop**

This hands-on workshop will give attendees the opportunity to learn, first-hand, how laser scanners can be effectively utilized for land surveying. Laser scanners can create 3D images quickly while reducing data collection errors. The workshop will delve into the realm of 3D scanning and the future of surveying with lasers.

#### **Anthony Paturzo, Northeast Regional Manager, HDS, Leica Geosystems Inc.**

Having worked in the Land Surveying Business for 20 years, Anthony has spent most of those years in Boston, Massachusetts working on high rise construction. He was also fortunate to be part of a Laser Scanning Team where he utilized the Cyrax (Leica) Laser Scanning equipment on over 30 projects. For the last 10 years Anthony has worked for Leica Geosystems as a Sales Engineer and now Regional Manager in the HDS / Laser Scanning Division. He has taught many laser scanning courses as well as provided training for numerous customers.

## **9:45 AM – 11:15 AM**

### **Session 2A – Construction Layout – Best Practices for Vertical Construction**

Learn about construction layout from one of the industry's most experienced surveyors. Topics will include: 1) Mathematics of Measurement Errors; 2) Accuracy Defined; 3) Procedures that increase the Precision of the Instrumentation Utilized; 4) Column Line Layout (step by step); 5) Error Distribution; and 6) Professionalism & Reputation vs Budget.

#### **Karl A. McCarthy, PLS, Senior Vice President, Feldman Land Surveyors**

Karl joined Harry R. Feldman, Inc. in 1975, and has continuously served clients in the land surveying industry for over 40 years. He is a go-to leader at the company who is revered as a strategist. With his longevity in the industry, Karl has forged deep relationships based on long-term trust and a proven track record of successfully completed projects. He is directly involved in the daily operations of the company, interfacing with both internal staff and field crews. He schedules and directs several concurrent projects, always delivering top-notch technical competence in a timely fashion with the best service possible.

Karl is also an adjunct faculty member of Wentworth Institute of Technology, where he is entering his second decade of teaching Construction Survey in the undergraduate Construction Management degree program and Theory of Survey Measurement I & II in the post-graduate certificate program. Karl is active in a number of charitable and industry related organizations, including the Massachusetts Association of Land Surveyors and Civil Engineers, National Society of Professional Surveyors, American Congress on Surveying and Mapping, and the Lafayette – Dover Masonic Lodge.

## **9:45 AM – 10:45 AM**

### **Session 2B – CI/ASCE 38-02 & Subsurface Utility Engineering (SUE) – How SUE Can Provide for Better Design, Cost Savings, and Damage Prevention for America's Future Infrastructure Improvements**

Join us as we explore the world of Subsurface Utility Engineering (SUE) and the CI/ASCE standard that has brought about one of the most unique engineering disciplines in recent history. We will discuss the CI/ASCE 38-02 "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data" and how it applies to today's complex infrastructure needs. We will also discuss how SUE can be incorporated into the survey/design process as well as the equipment & methodologies used by the SUE industry.

#### **James F. Noone, PE, President & Principal, BSI Engineering, Inc.**

With over 24 years' experience as a Registered Professional Engineer, James Noone's expertise covers all fields associated with Subsurface Utility Engineering (SUE) and CI/ASCE 38-02 "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data." As both a founding and current member of the CI/ASCE 38-02 Standards Committee, James has overseen numerous SUE projects for the US Department of Transportation, the US Department of Defense, private industries, and both state and local level municipalities nationwide. Of the founding committee members, James was the only registered Professional Engineer.

Prior to founding BSI in 1993, James was involved with multiple civil and structural design projects spanning from coast to coast of the United States giving James great insight into the problems faced by designers with respect to the inaccurate depiction of existing utility information. James provides consultancy services and seminars to many other industries including civil, environmental, and geotechnical consultants as well as municipal and state agencies. James also has a vast amount of experience with the use and application of numerous types of Surface and Geophysical Detection methods as well as presenting and publishing papers on this subject.

#### **Blake A. Leclair, Project / IT Manager, BSI Engineering, Inc.**

With over 15 years of experience as a utility design and subsurface utility design engineer for major infrastructure improvement projects, Blake Leclair is able to offer a unique perspective on providing SUE services with respect to the challenges faced by today's design engineers. Blake is well versed with geophysical prospecting methods and utility condition assessment techniques as well as the equipment utilized by today's SUE service industry allowing him to provide a vast educational insight into the world of SUE. As an industry leader in his field, Blake is able to purvey a comprehensive understanding of the information that is possible to obtain from the proper use of SUE services and how best to incorporate SUE into today's complicated urban infrastructure projects.

Prior to working with BSI Engineering, Inc., Blake worked as a Design Engineer for the Boston Water & Sewer Commission where he gained a great deal of experience working on sewer rehabilitation/replacement, combined sewer separation and storm drain installation projects in one of the country's oldest and most complicated infrastructures.

**11:00 AM – 12:00PM****Session 2C – North East Surveying Societies Annual Meeting**

This meeting is open to all. Recent member undertakings and plans for the next joint meeting of the North East Surveying Societies are among the topics to be discussed.

**11:30 AM – 12:00 PM****Session 3A – Vendor Quick Fire Session**

This session invites exhibiting vendors to participate in a rapid-fire chance to explain and answer questions about their company and the products and services they offer.

**1:30 PM – 2:45 PM****Session 4A – Steps to Setting Up Your Unmanned Aircraft System Department**

Exploring the factors to consider when planning the start-up of a stand-alone UAS business or a department in an existing firm. These include; system operating limitations, flight training, crew selection and responsibilities, operator authority, and client expectations. The session will better prepare executives and technical managers to utilize UAS technology to its fullest extent and expose the risks that await fledgling operators.

**Bryan Baker, Pilot (ASEL), Leica UAS Sales Manager, NAFTA**

Bryan Baker is the North American UAS Sales Manager for Leica Geosystems Inc. based in Denver, Colorado. Bryan has almost 30 years of experience in the geospatial profession, focusing on sales management, software and application development, training, and technical support in land surveying, civil engineering, and GIS. Combining his pilot experience with his geospatial career, he has become increasingly involved with developments in the UAS industry over the last several years, both with regard to Federal Aviation Administration (FAA) regulations and the application of professional systems.

**1:30 PM – 2:45 PM****Session 4B– Working With Carlson Survey 2016**

See the latest features of Carlson's flagship software.

**Gary Rosen, Manager, Carlson Software**

Gary Rosen brings over 35 years of multifaceted experience in the world of civil engineering/land surveying/GIS, working as a surveyor, drafter, CAD technician, trainer, consultant, author, and, since 2005, as Carlson Software's Regional Sales Director for Canada. You may know him as Professor Landnut from Electric Pelican Ink, or through some of the many training seminars he has done with MALSCE over the years.

**3:00 PM – 4:00 PM****Session 5A – There is No “ME” in Meditation**

Mediation teaches us that as a mediator we do not have input into the solution but our goal is provide the parties with the opportunity to create a workable solution. So often, we as surveyors see the dispute blooming and we have the ability to allow the parties to work out a solution without resorting to law suits. This seminar will outline the steps used in mediation and will offer two cases where mediation could have allowed the parties to reach a successful resolution without winners and losers. Mediation can be a solution.

**Donald T. Poole PLS, President, Outermost Land Survey, Inc.**

Don Poole is a Professional Land Surveyor, formerly registered in Tennessee, Kentucky, and West Virginia. He also successfully completed Certification as a Federal Surveyor. In addition to being a land surveyor, Don also completed training as a Mediator with Cape Mediation. He currently works full time as a Land Surveyor in MA and volunteers at the Orleans District Court as a mediator. Don has sat as an expert in numerous land court trails and has always felt that there must be a better avenue than the courtroom.

**3:00 PM – 4:00 PM****Session 5B – Working With Carlson SurvCE**

See the latest features of Carlson's Data Collector Software.

**Todd Varney, Carlson Software**

Todd has been in the construction & positioning industry for over 20 years. He has a Bachelor's degree in building materials technology and has been a land surveying instructor at Wentworth Institute of Technology. Formerly with B. L. Makepeace, he has recently joined Eastpoint Lasers as their regional representative proudly selling and supporting Carlson Software to be used with a variety of GPS and robotic equipment.

#### **4:15 PM – 5:00 PM**

##### **Session 6A – *Leica Captivate***

Experience the future of surveying by immersing yourself in the industry's only touch-technology software, test-driving the world's first self-learning total station, and bringing live-streamed intelligent cloud-based imagery into the field. See how Leica makes survey field work a captivating experience.

##### **Jim Bosworth, *Woburn Sales Manager, Maine Technical Source, Inc.***

Jim Bosworth is the Woburn Sales Manager and Technical Sales Representative for Maine Technical Source, Inc. He has a BS in Surveying Engineering from the University of Maine, 1991. Since 1993, Jim has worked with Maine Technical Source selling, training and supporting survey and GPS equipment sales in the southern New England market.

#### **4:15 PM – 5:00 PM**

##### **Session 6B – *Wetlands Protection Act***

The Massachusetts Wetlands Protection Act (WPA) identifies numerous coastal and inland resource areas as subject to protection. Any activity proposed or undertaken within an area subject to protection, which will remove, fill, dredge or alter that area, is subject to regulation under the WPA. But, how do we as Wetland Scientists, Engineers, and Surveyors write our notice of intent narrative to clearly and concisely respond to the general performance standards within the WPA? How do we utilize the regulatory text of the WPA to hopefully prove the success for our project? Let's review performance standards – creative writing under the Wetlands Protection Act.

##### **David Gorden, *Senior Soil and Wetland Scientist, PEER Consultants, P.C.***

Dave Gorden is a reliable, efficient, and focused Senior Environmental Professional with a Master of Science degree, professional licenses and certifications, and 22 years of strategic experience with industry leading firms in the environmental, engineering, industrial hygiene, and natural resource fields. He effectively collaborates with key market-sector clients on sensitive projects by successfully combining his proven expertise in Environmental Science, Land Survey, Natural Resources, Wetlands & Wildlife, Site Investigation, Characterization, Remediation, Solar Photovoltaic Systems, Transportation Design/Build Projects, and Civil Engineering Support Services.

## **Saturday, March 19**

#### **8:00 AM – 5:00 PM**

##### **Surveyor-in-Training and Professional Land Surveyor Refresher Courses**

The 2016 MALSCE Convention features day-long review courses for Surveyor in Training and Professional Land Surveyor candidates who will be taking the Fundamentals of Surveying Exam or the Professional Land Surveyor Exam. Register online for the [SIT Refresher Course](#) and [PLS Refresher Course](#) or download a [course registration form](#). Space is limited, so register today.

#### **8:00 AM - 12:00 PM**

##### **Seminar Part 1 – *Boundary Retracement Using Modern Tools***

An overview of the legal aspects and philosophies of retracement and the surveyor's duty. The discussion of "Modern" tools includes: the use of the internet to obtain materials such as maps, photographs, satellite imagery, documents and declination data; the use of GPS in retracement; and sources of information and date for the analysis of field evidence. This workshop includes discussions on surveyor's duty and responsibility, retracement and resurvey, the relative importance of conflicting elements, declination conversion, numerous valuable websites on ancient maps, dendrochronology, fence history, common tree names, barbed wire, metal detectors, and GPS, with numerous case law citations.

##### **Donald A. Wilson, PLS, *President, Land and Boundary Consultants***

Don has been in practice as a land boundary consultant since 1974 and surveying since 1962. Don is both a licensed land surveyor and professional forester and has presented seminars on a variety of topics including description interpretation, boundary evidence, surveying law, and various aspects of forensic science.

In addition to over 200 technical publications in several disciplines, Don has been involved with writing more than 60 books. The latest editions of *Evidence & Procedures for Boundary Location* and its companion title, *Boundary Control and Legal Principles*, both of which he is a co-author, are the leading surveying textbooks. Two of his more recent publications, *Interpreting Land Records and Forensic Procedures for Boundary & Title Investigation*, are proving to be a favorite among attorneys, title examiners and surveyors. His latest book, *Easements Relating to Land Surveying and Title Examinations*, will be a desk-top favorite for many. He has written six other boundary-related texts as well as researched and compiled the subject matter for seven state boundary and surveying law books.

Don is a former faculty member of the University of Maine where he taught surveying in the School of Forestry and the Department of Civil Engineering. He is also a former faculty member at the University of New Hampshire where he continues to teach courses for the UNH Professional Development & Training Program. He is a member of the Professional Surveyor/Red Vector "Dream Team" providing on-line education for surveyors and related professionals. Presently this cooperative is offering twelve separate courses authored by Don with more currently being developed. Don is a member of and has been active in many surveying, mapping and forestry organizations. He is past president of both the Maine Society of Land Surveyors and the New Hampshire Land Surveyors Association.

**1:00 PM – 5:00 PM**

Seminar Part 2 – **Boundary Retracement Using Modern Tools**

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**Register and pay for the 2016 MALSCE Convention by credit card online at:**

<http://bit.ly/2016MALSCEConvention>

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## Registration Form **2016 MALSCE Convention Registration** **Friday & Saturday, March 18 & 19, 2016**

### Registrant Information

Name: \_\_\_\_\_  
Company (if applicable): \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_  
Dietary Restrictions: \_\_\_\_\_

### Registration Fees

MALSCE Member  Non MALSCE Member

Members of CALS, MSLS, NHLSA, NYSAPLS, RISPLS and VSLs can attend for the MALSCE member rate. Please check the appropriate box below if you are a member of one of these organizations:

CALS  MSLS  NHLSA  NYSAPLS  RISPLS  VSLs

### Full Convention – includes Friday Convention, Friday Dinner, & Saturday Convention

MALSCE Member\*: \$300  
 Non MALSCE Member: \$375

### Friday Convention– includes Friday Convention & Friday Dinner

MALSCE Member\*: \$200  
 Non MALSCE Member: \$250

### Friday MALSCE Dinner Only

MALSCE Member\*: \$55  
 Non MALSCE Member: \$65

### Saturday Convention Only

MALSCE Member\*: \$200  
 Non MALSCE Member: \$250

**Total Amount Enclosed**     \$ \_\_\_\_\_

Make checks payable to "MALSCE" and mail with completed form to: MALSCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616

Or Pay with (Check one):  Visa  Master Card  American Express

Card Name: \_\_\_\_\_  
Card Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_  
Billing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Signature: \_\_\_\_\_

- Registration is processed on a first-come, first-served basis. Registration deadline is extended to Thursday, March 10, 2016.
  - No refunds will be given after Thursday, March 10, 2016. No-shows will be billed.
  - In the event of inclement weather, call our weather line at 617-305-4118 on March 17 after 3:00 PM for a recorded message update.
  - Questions? Call 617-227-5551.
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