



# ORANGE SPEEL

ASPE Chapter 3 Newsletter

MAY 2019

## Letter from the President

05/01/2019

Calendar update, April is finished and 2019 is now 33% complete. In June the Estimators Summit will be held in Kansas City, June 19th to 22nd. This year's theme is "Rocking the Roles; The Evolution of Preconstruction". Speakers and their topics are being announced by e-mail and are also available on the ASPE National website. I look forward to attending this year's Summit and representing our chapter. If you have the chance it is a wonderful opportunity to see the latest software, attend excellent presentations and meet other estimators from around the country.

At our upcoming May 8th dinner meeting Erik Hanson of Geogrid Retaining Walls will be presenting on modular retaining walls their applications, product selection and value engineering.

Larry Hendrick will be announcing the results of our chapter elections. As ASPE is a volunteer organization everyone's participation is encouraged and welcomed.

I want to again thank Mike Romanowski, SE of WoodWorks Wood Products Council who was our April dinner meeting speaker who informed us about the advances in Mass Timber construction.



As I mention in every Presidents Message I want to thank everyone who has presented ideas for upcoming dinner programs. For anyone new to our meetings you will find 3" x 5" cards and we encourage you to write down your ideas and presenters for dinner meeting topics. Our objective is to make our meetings relevant for what will help all of us be better and more informed estimators.

Kevin Murphy, CPE. ASPE Chapter 3 President.

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*"Professional Estimators and those in training shall safeguard and keep in confidence all knowledge of the business affairs and technical procedures of an employer or client "*

- Canon # 4

## ASPE Chapter 3 Dinner Meeting

April 10, 2019

### Mass Timber Construction: Products, Performance and Design by Mike Romanowski, SE, of WoodWorks Wood Products Council

Mike Romanowski, S.E., is the Regional Director of WoodWorks Wood Products Council and oversees Southern California, Arizona and New Mexico. Woodworks is a non-profit organization whose mission is to educate and promote timber construction and its advantages. At our April 10th dinner meeting he presented and discussed the upcoming building code changes and the new approved applications for Mass Timber Construction.

Mass timber is comprised of multiple products which include: Cross Laminated Timber (CLT), Glue Laminated Timber (GLT) which is a common product. Mechanically laminated timber as defined by building codes are both Nail Laminated Timber (NLT) and Dowel Laminated Timber (DLT). The majority of products can be used for horizontal applications, but only CLT and glulams are used for vertical applications.



Mike Romanowski, SE discusses Mass Timber construction.

Cross Laminated Timber (CLT) which is referred to as “plywood on steroids”, is prefabricated / finished panels. They are engineered with 3rd party inspections and are made with odd number of laminations, which can be 3, 5, 7 or 9 plies of lumber, which is similar to plywood. It can be custom designed with minimal on-site cutting. They are shipped with the first piece to be set, being the first piece to be taken off the truck. Once in place CLT has to be protected during construction.

NLT and DLT are constructed off-site and for stability is kiln dried to 15% moisture content. NLT is used for floor and roof decking. Occasionally it will also be used for shaft walls.

Some of the many advantages of mass timber are its aesthetic appeal and finish. Since it is prefabricated offsite it is both more efficient and faster than site built construction and is an excellent choice for urban in-fill projects. It is fire resistant as wood chars at the rate of 1.5” per hour and thus forms a protective layer over the inner core. Also, wood is higher in strength to weight ratio and can be up to 75% lighter than concrete.

Today most timber construction is either a Type III or Type V. Type IV is heavy timber. In the new upcoming 2021 IBC & 2022 CBC there will be 3 new types of timber construction: Type IV A will be for construction up to 18 stories; Type IV B up to 12 stories and Type IV C to 9 stories.

In the April 10th edition of Construction Dive an article titled “Test Lab for Timber Technology: College Campus Construction” said “there are 34 mass timber buildings completed or in the works on U.S. college campuses”. In the United States our current building code allows 5 – 6 story light wood framed construction. Upcoming code changes will allow mass timber construction projects up to 18 stories in height. Europe has allowed timber construction for the last 15 years and there projects now range 10 – 20 stories in height.

In the very near future we should expect to see more mass timber projects being built and we want to thank Mike again for his presentation discussing its applications.

Article by Kevin Murphy, CPE

## ASPE Member Meeting

Please RSVP by the Tuesday before each meeting so we are sure to have enough food and place settings.

Registration is available at [www.aspe-oc3.org](http://www.aspe-oc3.org). Click away and make sure you select your dinner choice. On-line payment is now available!

Cost is \$45 if RSVP and pay before the deadline and \$50 if you don't.

The Chapter has to cover the cost of the meals that we confirm.



They don't do public toilets like they used to in the years BC

### ASPE CHAPTER 3: OBJECTIVE:

The object of this Chapter is to further the recognition of construction estimating as a professional field of endeavor.

We wish to promote education and contribute to the betterment of the construction industry.

We observe and promote ethical standards of conduct.

This Chapter contribute to the establishment and publication of standard construction estimating practices.

We want to promote the certification program by which professionalism to construction estimating and adherence to these standards is recognized.

### Board of Directors [2018/2019]:

**President:** Kevin Murphy CPE

**Vice President:** Dan Schottlander CPE

**Past President:** Ron Svarc LCPE

**Secretary:** Bryon Barker

**Treasurer:** Asoka Sellahewa CPE

**Committees:** Tom Smithson (Meetings/speakers)

Wil Beukman (Newsletter)



Some 2,000 year old construction the Roman way

### Upcoming Programs in 2019:

**May 8: "Modular retaining wall systems "**

**by Erik Hanson of Geo Grid Retaining Wall Systems .**

**June 12: "Advanced engineered structural steel connections"**

**by Kyle Wilson of SidePlate**

**June 19-22: Estimators Summit in Kansas City.**