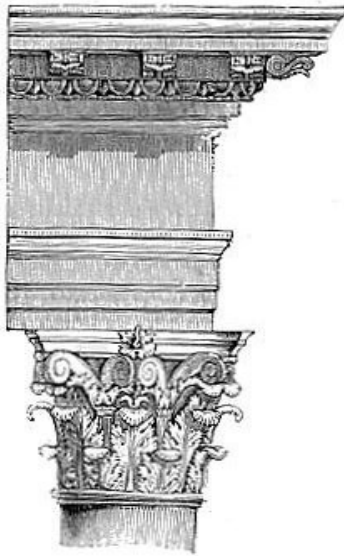


The

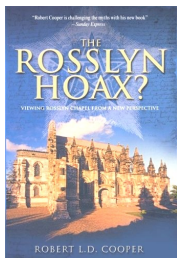
Entablature



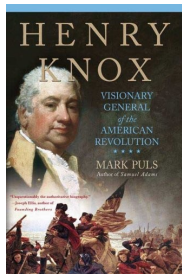
An *entablature* refers to the superstructure of moldings and bands which lie horizontally above columns, resting on their capitals.

Great Reading!

Take Time to read and advance your knowledge as a Mason



The Rosslyn Hoax by Robert L. D. Cooper, Curator, Grand Lodge of Scotland. If you want to separate fact from the fiction that surrounds the Knights Templar, their supposed 'flight' to Scotland and the ostensible Templar 'proof' found in Rosslyn Chapel, this is the book to read. Strongly recommended.



Bro. Mark Puls, a member of MG **Henry Knox** Lodge in Boston, has written a compelling portrait of a great hero and Mason. Those who attended Knox Lodge's 2008 Table Lodge heard Bro. Puls speak with zeal about one of the greatest Generals of the Revolutionary War. We in Maine remember his Kennebec trek best but there is FAR more to the compelling story, told by a true Knox devotee. This is a book you will really enjoy!

Maine Masonic College MOVES AHEAD



By Bro. Stephen R. Nichols, Chairman
Board of Regents

After two years of experimentation with classroom presentations and the introduction of DVD offerings, we are adopting a new direction. Rather than try to draw Masons from all corners of Maine to classes at widely separated locations, we shall concentrate our efforts in a single location and attempt to deliver a progressive, cohesive program based on the seven liberal arts and sciences. Our initial focus will be centered on Newport. If this effort is successful, we shall then identify other Maine locations where we can deliver a complete and useful program of instruction.

We are also instituting a program of recognition by according Maine Masonic College Educational Units (MMCEUs) at our classes. There will be a progressive series of recognitions for participation in our programs. In addition, there will be the even more valuable reward of an increased un-

derstanding of the ritual and the basic philosophy of Masonry by those who attend the instruction.

We shall continue and expand our cooperation with the Masonic Education and Lodge Services (M.E.A.L.S.) Committee and shall include the Grand Lecturers and the Lodge Ambassadors in our work. This should result in a complementary and consistent message from all of these sources.

Our Board of Regents welcomes evaluations of its instruction from all sources. We are determined to provide the most effective program possible, one that will deliver on our goal of bringing more light in Masonry.

For more information about the College, contact any Regent, or feel free to contact me by phone at 727-3368 or by e-mail at senichols@sacoriver.net. There's loads of information including up-to-date class schedules on our website at

mainemasoniccollege.org

We look forward to seeing you at a class soon!

Upcoming Courses!

January 24 (Saturday) - Within These Walls: Influence of the "Built-Environment" on Therapeutic Music Interventions - Susan B. Wesley, Ph.D., MT-BC - 9am-Noon: open to all.

February 21 (Saturday) - Symbols: Who Needs Them? - Eric Kuntz, MD - 9am-3pm

March 13 (Friday) - Masonically Speaking - Kelley Carter - 7-9pm

April 4 (Saturday) - Development of Masonic Ritual - Christian Ratliff - 9am-3pm

April 25 (Saturday) - The Tenets of Freemasonry - Reginald Wing - 9am-3pm

All of these courses will be at the Masonic Hall in Newport, just off of I-95. Registration and further details are on our website or by calling the Registrar, Bro. Jerry Leighton, at 368-4903. Do register in advance so we can have an accurate count for materials/food.

The Minutes of “Old Builders Lodge #1000”

By Bro. George M. A. Macdougall
Vice Chairman, Board of Regents

When we think of Architects that have influenced the Art that has created the modern world around us, we would probably think of men such as M Pei and Frank Lloyd Wright. However, these men did not change the Art as much as they mastered the use of it. If we want to see where the actual equations came from that modern engineers and architects use, we must look back in time - way back! I would like to use this space for a series of articles on how modern engineering and architecture came about.

I was very much impressed when in college I learned the formula for column design or any compression member came from the 18th century. The formula is called the Euler Equation (pronounced Oiler) and was derived by Leonhard Euler, a mathematician. The formula is

$$P_{cr} = (\pi^2 EI) / L$$

P_{cr} = the critical force needed to cause the column to bend

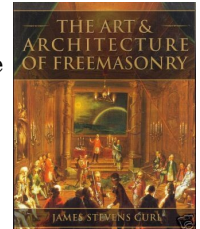
$(\pi^2 EI)$ = a shape factor based on the column cross section

L = Length of the column

As you can see, the bigger the cross section is, the bigger the force needed to bend it. And conversely, the longer the column is, the smaller the force needed to bend it. But who cares because columns are compression members, only subject to crushing forces, right? That is true until they start bending, then they become complex members subject to both bending loads and compression loads, known as biaxial bending. Once the column started to bend the material it was made of would be subject to tensile forces pulling it apart similar to a beam as

well as normal compressive forces.

We call this biaxial bending because it is being stressed along two axis. Common column materials of the ancients such as stone were not very good in tension. Today, thin columns generally have a core made of a steel beams to handle these stresses.



Just think: the ancient Greeks constructed all those columns that are still standing today, some in the shape of statues, 1700 years or more before Euler developed his equation!

TRY IT OUT! Take various objects like a ruler and compress them. You will quickly get a feel for materials good in compression or tension. Note how length makes a difference as well.

Noticeable blogs and more....

Each and every day we hear more about how great the Internet is. For many, though, it's both daunting and frustrating. A little time spent learning the basics, will enable you to broaden your horizon in ways you never thought possible. Time spent online can be productive and worthwhile if you know where to start and at the MMC website, we offer

some great pointers for you.

This Entablature edition we take particular note of the blog from the Van Gordon-Williams Library at Scottish Rite's National Heritage Museum in Lexington. New postings are added regularly with short but valuable information



about history as it relates to the museum's collections.

Blogs can be delivered to your computer like e-mail or accessed with your browser. Whichever way you choose, you'll find this material both readable and enriching. Links to several great blogs are on the MMC website.

Not only online -

Because of the ease with which material is found online, we sometimes tend to overlook some great resources. For many of us, having a physical book in hand, being able to turn pages, etc. is FAR superior than staring at a computer screen.

Your local library is obviously the



first place to start. Things may have changed a bit since you were last there but you'll be right at home quite soon. Books about philosophy, architecture, mentoring and more are readily available with most town libraries offering free borrowing privileges to residents or their own and surrounding communities.

Can't find what you really want?

Just ask your librarian who will locate the book through interlibrary loan. You'll have it in a few days at little or no cost. Our Grand Lodge library has thousands of books about Freemasonry and related topics available for loan to any Maine Mason. Books can help lift your spirit and point you towards the future. Don't miss out on the many opportunities libraries offer.