

## COLORFUL 'SOLUTION' FOR DENTISTRY'S ALPHABET SOUP

Confused by abbreviations identifying dental groups? The problem isn't as black and white as you think.

► page A3



## IMPLANT TRIBUNE

### ICOI CELEBRATES 40TH ANNIVERSARY

Implantologists get together for World Congress in Florida.

► page B1

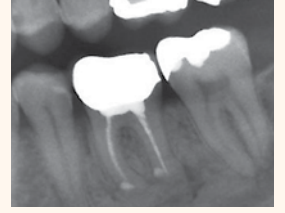


## ENDO TRIBUNE

### EFFICIENT, ERGONOMIC APICAL RESECTION

Revision and rehabilitation surgery: Better prognosis than even just 10 years ago.

► page C1



# Stone-age dental filling identified

6,500-year-old human mandible shows evidence of beeswax used to seal a cracked, upper canine

By Robert Selleck, Managing Editor

A team of Italian and Austrian researchers appears to have found physical proof that restorative dentistry dates to the Stone Age.

The researchers identified traces of a dental filling made of beeswax in a Neolithic human tooth discovered in Slovenia — and they are saying it may be the “earliest known direct evidence of [a] therapeutic-palliative dental filling.”

The research findings were published Sept. 19 in PLoS ONE, the peer-reviewed, open-access journal, accessible at [www.plosone.org](http://www.plosone.org).

The team acknowledges in its paper that it cannot be absolutely certain that the beeswax filling was placed in the tooth in an effort to address a dental problem the individual was experiencing while alive. But the paper identifies that as being the most likely of the possible scenarios that would explain the presence of the substance on a worn-down tooth that otherwise would have had exposed dentin.

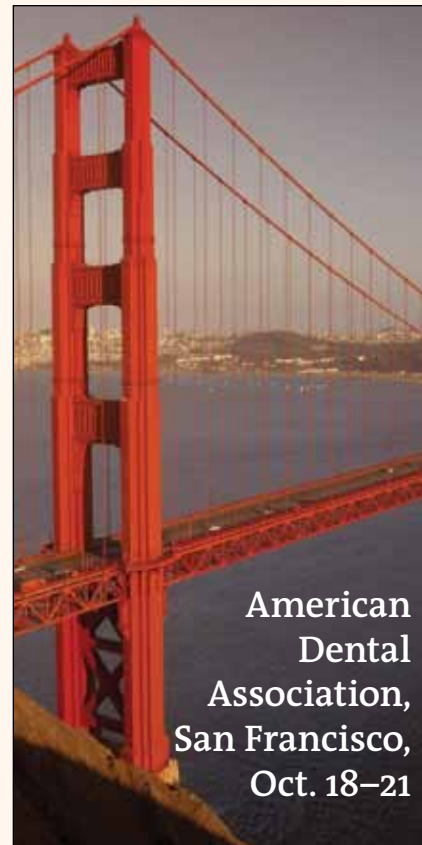
“The tooth probably became very

sensitive, limiting the functionality of the jaw during occlusion. The occlusal surface could have been filled with beeswax in an attempt to reduce the pain [by] sealing exposed dentin tubules and the fracture from changes in osmotic pressure (as occurs on contact with sugar) and temperature (hot or cold relative to the oral cavity),” the team wrote.

The piece of jawbone with five teeth still attached was discovered long before the team’s research was conducted. It was excavated from a cave wall near the village of Loche, Istria, in Slovenia and was initially dated based on associated fauna remains, which traced to the Upper Pleistocene era.

The team reported that the specimen was considered to be “one of the most ancient anthropological remains from the northern-Adriatic area.” But the find had never been subjected to detailed analysis until the researchers secured permission to study the mandible using state-of-the-art scanning technology and radiocarbon dating techniques.

► See FILLING, page A2



American Dental Association, San Francisco, Oct. 18–21

The American Dental Association’s 153rd Annual Session and World Marketplace Exhibition is Oct. 18–21 at San Francisco’s Moscone Center. The meeting brings together leaders in dental practice, research, academia and industry and includes more than 280 continuing education courses and more than 600 suppliers of dental products and services. Photo/Provided by California Travel and Tourism Commission/Christian Heeb

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• Dental Tribune U.S. EIC suggests colorfully confusing communication

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- Yankee Dental Congress highlights include mid-conference comic
- C.E. credits, beautiful beaches make Smiles in the Sun unique event

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- New: Inclusive Tooth Replacement Solution from Glidewell Laboratories
- Arm & Hammer sponsors high-profile events at ADA annual meeting
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- Blind spot costing you thousands?
- Philips Wand STA: painless injection
- Next xpAPce video features top oral surgeon with three-part C.E. course
- Pink FlashTips support cancer fight
- Scheduling Institute finds learning’s sweet spot, where everything clicks
- OrthoBanc online payroll services comprehensive but low priced
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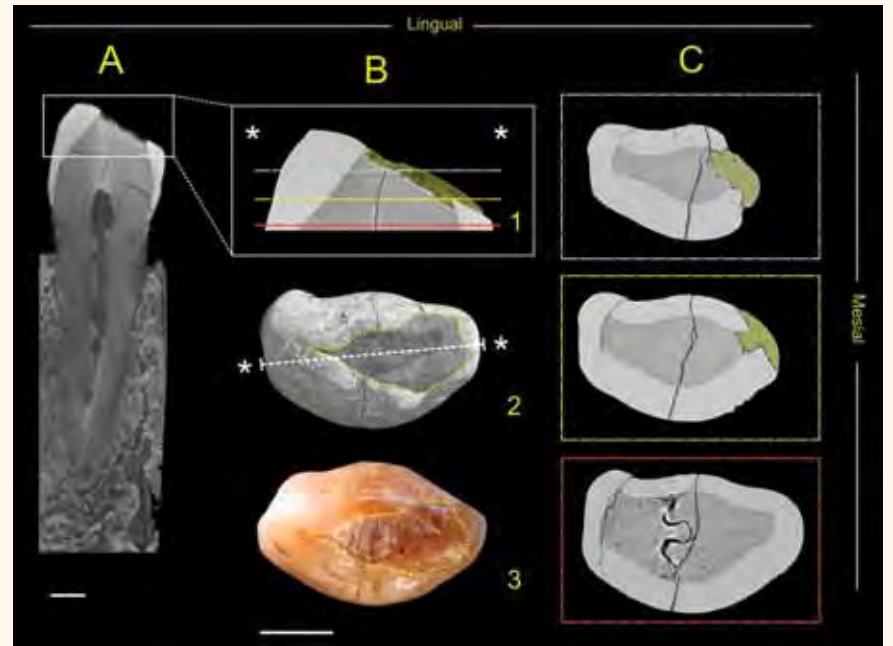
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Various views of the mandible discovered in a cave in southern Slovenia. Scale bar, 10 mm. Photos/Provided by Plos One, [www.plosone.org](http://www.plosone.org), Sept. 19, 2012, Vol. 7, Issue 9 e44904



A) Distal-mesial section of lower left canine. B1) Micro-CT detail of crown showing thickness of beeswax (in yellow). Beeswax exactly fills shallow cavity in exposed dentin and upper part of crack. B2) 3-D reconstruction and B3) microphotograph of crown in occlusal view with indication of surface covered by beeswax (within yellow dotted line). C) Micro-CT based cross-sections showing enamel cracks along labial and lingual aspects. Positions of the cross-sections are shown in B2. Beeswax is shown yellow. Scale bars, 2 mm.

◀ FILLING, page A1

Permission was granted by Italy's Natural History Museum of Trieste, to whom the original finders had donated the specimen. The mandible, determined to be from a male who died in his 20s, was described by the team

as, "the left portion of an isolated adult mandible bearing a canine, two premolars, and the first two molars."

The 12-person team of researchers from university and governmental facilities in Italy and Australia used

▶ See FILLING, page A3

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# Alphabet soup

## Proposed: colorful communications

By David L Hoexter, DMD, FACD, FICD,  
Editor in Chief



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A dilemma. We now have so many dental groups that we have almost run out of letters of the alphabet. As group after group abbreviates its name, we are at a loss to tell one from another without a scorecard. Either we need a new alphabetical language or more exotic sounding dental organizations with as yet, unused letters.

History relates its alphabet beginnings to Mesopotamia, where early transcribers used grooved lines on a bulla, or gourd-like container. These scratches of lines became the beginnings of written communication.

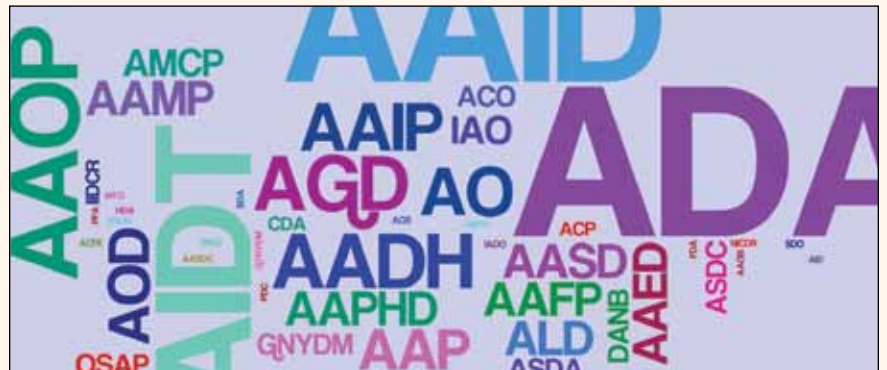
Flashing forward to mobile communications of today, where time pressures have abbreviated words, and we have a lingo all of its own: Abbreviating is a modern necessity.

To begin with, you cannot tweet — under twittering rules — over a certain number of characters. Also, texting sophistication requires not only abbreviating, but also doing it creatively, to stump the recipient.

Fortunately, having a college-aged daughter has given me a little heads up in this language. For example, CUL means “see you later” and POS means “parent over shoulder.” Everyone is in a rush — but to where? Tired thumbs? And communication stands in line behind speed.

There is a definite division, albeit, not a sharp one, between the Baby Boomers and the computer generation, sometimes alluded to as “nesters.” Whereas Baby Boomers enjoy direct personal communication, nesters prefer computer communication. Abbreviations then become even more important.

We are running out of letters to distinguish the plethora of dental organizations. A rebus should represent a meaning, or a riddle perhaps. The ADA, for example, stands for American Dental Association. But, it could also represent the American Dermatological Academy.



Dental Tribune graphic created at [www.wordle.net](http://www.wordle.net)

At least the GNYDM, representing the largest dental meeting in the U.S., has unique letters in its title and will not be confused with any other group.

There is also the ERA mini implant, not to conflict with the ERA in baseball. By the way, has anyone ever seen a maxi implant? Between the AACD, ASDA, AADE and AAID, one wrong initial and you're in the wrong state or country and have to pay new dues. The ESC, Eastern Society of Cariology, must not be confused with the ESC, European Society of Cardiology.

The idea of written language is to give unique connotation to words. Abbreviating these words with initials not only obviates the communication, but makes it confusing. Abbreviations have become the teratogen of communication.

To help ameliorate this confusion I am proposing a *Hoexter's Index* (HI), which will not only speed up communication, but will satisfy tweeters and texters alike. I propose that we assign a color to every dental specialty. For example, I suggest burgundy for general practitioner, red for periodontics, green for implants, yellow for oral surgery (and maxillofacial), orange for endodontics, blue for esthetics, black for pathology, gray for dental

materials, pink for orthodontics and pedodontics, and brown for prosthetics.

This way, each respective group would be required to use that color in its initials. When publicizing an AO meeting, we would recognize that an **AO meeting** was for the Academy of Osteointegration, an implant group, as compared to an **AO meeting**, which would be for Alpha Omega, a dental fraternity group. Also, we would know that **AAP** represents the American Academy of Periodontics, which would not be confused with the **AAP**, or the American Association of Prosthodontics. Unfortunately, unless we have a color chart, we will be just as confused, but it will be much more colorful.

This is only a suggestion and any thoughts or other solutions would be received and considered for publication as well. There is an obvious problem. Let us communicate and help correct it.

To conclude, Rodney Dangerfield, the famous comedian, once described his son eating alphabet soup that his wife, a horrible cook, had made. The boy separated letters to spell “HELP.”

Let's help our profession abbreviate with colorful understanding. OK?

### ← FILLING, page A2

synchrotron radiation computed microtomography, accelerator mass spectrometry radiocarbon dating, infrared spectroscopy and scanning electron microscopy to separately analyze the tooth, bone and filling material.

Based on the radiocarbon analysis, the mandible was dated to an age range of 6,655–6,400 years Before Present and the filling 6,645–6,440 years BP.

The researchers listed several previously known examples of ancient dentistry but said there was no known published documentation of the use

of “therapeutic palliative substance in prehistoric dentistry.” The research team also referenced documentation on the use of beeswax as a binding agent in antiquity — and explained the substance's ability to remain preserved for long periods of time because of its “extreme chemical stability.”

The team's conclusion: “In this emerging framework of ancient dental therapeutic practices, the finding of a human partial mandible associated with contemporary beeswax, covering the occlusal surface of a canine, could represent a possible case of therapeutic use of beeswax during the Neolithic.”

In a note regarding the funding of the research project, the team wrote, “This work is part of the ICTP/Elettra EXACT Project (Elemental X-ray Analysis and Computed Tomography) funded by Friuli Venezia Giulia (Italy). The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.”

The team's paper is titled, “Beeswax as Dental Filling on a Neolithic Human Tooth.”

(Source: *Plos One*, [www.plosone.org](http://www.plosone.org), Sept. 19, 2012, Vol. 7, Issue 9 e44904)



The ADA meeting's schedule of Thursday through Sunday morning helps minimize your time away from your practice and also enables you to enjoy the fun of a San Francisco weekend. On the not-to-be-missed list: a stand-up, hanging-off-the-side ride on the world's last manually operated cable car system. Photos/Provided by California Travel and Tourism Commission/Andreas Hub

# Pundits at ADA event on eve of election

*American Dental Association has liberal Robert Reich and conservative George Will on stage*

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The American Dental Association's 153rd Annual Session and World Marketplace Exhibition is Oct. 18-21 at San Francisco's Moscone Center.

The annual session brings together leaders in dental practice, research, academia and industry presenting more than 280 continuing education courses over four days. More than half of the lecture courses are offered free with registration. The World Marketplace Exhibition will feature more than 600 leading suppliers of dental products and services.

Political pundits Robert Reich and George F. Will will be featured as the 2012 Distinguished Speakers as part of the opening general session on Thursday morning, Oct. 18, just three weeks before the general election. Reich and Will will sit with ADA leadership for a candid Q&A session following their introductory presentations.

The ADA offers housing discounts at a variety of official ADA hotels in San Francisco. Discounts are available for air travel, car rental services and ground transportation. More information can be found at [www.ADA.org/session](http://www.ADA.org/session).

As of Sept. 21, the registration fee for ADA-member dentists is \$150. Non-member dentists or graduate students who would like to check out the ADA Annual Session for the first time can attend the session for a one-time discounted rate of \$200, instead of the regular \$1,550 rate for non-member dentists. These prices reflect rates after early registration ended Sept. 21. For details, visit the registration and housing section of [www.ADA.org/session](http://www.ADA.org/session).

### ADA365 extends the session

ADA365 is a new way to experience the ADA Annual Session. Also called a "hybrid meeting," ADA365 offers a way to attend some annual session events online if you cannot make it to the meeting in person.

Dentists can log on to ADA365 through [www.ADA.org/ADA365](http://www.ADA.org/ADA365) using their ADA member number and the password "ADA365" (all caps).

There are more than 22 hours of recorded video content from the 2011 annual session already available on the site.

During the annual session (Oct. 18-21), members can log on to ADA365 to view events streaming live from San Francisco. These will include the six live-patient Education in the Round courses, the Open

► See ADA, page A6

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• ADA, page A4

Clinical and Science Forums, the opening general session — as well as a variety of online-only elements, such as 2011's dental student roundtable conversation. As the video streams live, viewers will be able to ask questions of the speakers using a live chat function.

#### Education in the Round

Education in the Round enables attend-

ees to view live-patient procedures in a fully functional dental operatory in the convention center. Each course is \$69. The 2012 lineup includes:

- Class II Resins Can Be Simple and Fast, by Gordon Christensen, DDS, MSD, PhD.
- Live Demonstration of Immediate Lower Denture Stabilization Using Mini Dental Implants, by Raymond Choi, DDS.
- Soft-Tissue Surgery for Augmentation of Keratinized Gingiva, by Jon Suzuki, DDS, PhD.

- User-Friendly Techniques for Automatic Extraction of Teeth and Socket Grafting, by Lee H. Silverstein, DDS, MS, FACD, FICD.

- Examination, Diagnosis and Treatment of the Restorative TMD Patient, by James McKee, DDS.

- Lasers in the Dental Practice — A Live-Patient Demonstration, by Charles Hoopinger, DDS, David Roshkind, DMD, FAGD, MALD, and Donald Coluzzi, DDS.

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The course, which uses practical hands-

on demonstrations with live-fire CBCT units, is presented by the American Academy of Oral and Maxillofacial Radiology (AAOMR). The course is offered on Oct. 18, 19 or 20 (Thursday, Friday or Saturday). A ticket is \$750.

#### Hands-on cadaver workshops

Offered at the University of the Pacific, Arthur A. Dugoni School of Dentistry, the ADA Annual Session's hands-on cadaver workshops offer seven unique workshop opportunities.

Six three-hour courses and one six-hour course are available. Take note that shuttle time will be required before and after each course.

Course ticket prices vary.

Hands-on cadaver workshops include:

- Biopsy Techniques for the General Practitioner.
- Crown Lengthening Workshop.
- Local Anesthesia Human Cadaver Dissection Workshop.
- Cadaver Dissection of the TMJ and Associated Structures.
- Socket Grafting and Regenerating Bone Using Allograft.
- Mini Dental Implants in 2012.
- Anatomy of the Masticatory System: Clinical Application and Dissection.

#### Lots of options for new dentists

If you graduated from dental school less than 10 years ago, there are a number of annual session offerings you might find of special interest and several meeting benefits worth noting:

- Access to more than half of the lecture courses is included free with the cost of overall registration.

- The meeting is Thursday, Friday and Saturday and a half-day Sunday (morning) to lessen the impact created by your being away from your dental practice.

- There are more than 280 clinical and practice management courses to choose from, including a "New Dentist Track" presented in partnership with the ADA New Dentist Committee. Courses include The Psychology of Pediatric Dentistry (5106); Diagnosis-Based Pain and Infection Management (5115); Full-Arch Implant Restorations (5117); The Top 20 Game Changers of 2012 (6302); Advanced Social Media Marketing Strategies (course 6335); Dental Implant Restorative Workshop (course 7209); New Dentist Fast Track (course 7303); and Perinatal Oral Health and Dental Practice (7341).

- You can save time and money by doing all of your product research in one place: the expansive exhibit hall.

- The New Dentist Reception sponsored by Wells Fargo Practice Finance is an effective way for new dentists and students to network with colleagues, while also enjoying a casual gathering place.

Last year's reception drew a standing-room-only crowd. This year's reception is Friday, Oct. 19 (5:30–7 p.m.) at ROE Restaurant, considered by many to be San Francisco's premier boutique nightclub and lounge destination, and it's located just a half-block from Moscone Center. Tickets are \$15 each (limit two per person) and include light fare and two beverage tickets per person.

- For new dentists in California, the Annual Session offers the two state-required courses each day of the meeting: the California Dental Practice Act and Dental Board of California Infection Control.

(Source: American Dental Association)

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Whether you're a microscope user or not, the Academy of Microscope Enhanced Dentistry 11th Annual Meeting and Scientific Session promises to open your eyes to new possibilities.

Registration for the Nov. 16-17 event is available through the academy's website, [www.microscopedentistry.com](http://www.microscopedentistry.com).

You don't need to be experienced in microscope-enhanced dentistry to attend and benefit from the session's programs. Non-members and those who have never worked with a microscope are encouraged to attend to learn why microscopic dentistry is gaining so many advocates.

"Micro Vision: On the Cusp of Science & Precision," is on a Friday and Saturday at the Hotel Del Coronado in San Diego. This year's meeting represents a return to a live, onsite format, following the academy's virtual-only meeting last year. However, the virtual option continues, too, with live online streaming video available as an alternative strategy to access the meeting. Some of the sessions will air live online from California. And sessions will be recorded for archived availability online. This gives onsite attendees the op-

portunity to view a session they may have missed or review sessions they were able to attend. Access to the recorded sessions is included as part of your registration. Copyright law restricts some of the sessions from being available online.

The scientific session features general sessions, vignettes, panel discussions/Q&As and hands-on courses with top clinicians and leaders sharing the latest science and techniques.

All major sectors of dentistry are represented: restorative, endodontics, periodontics and implants.

The hands-on courses give attendees the opportunity to test-drive different microscopes while learning new procedures covering every dental specialty sector. Among the offerings:

#### Endodontic Course

- Foundational Protocols & Secrets for True Endodontic Success: A Hands-On Experience, with Paul Anstey, BChD.

#### Restorative courses

- Micro-Aesthetics I: The Art of Composites, with Jose Moura, DDS.



The Hotel Del Coronado, in San Diego, hosts 'Micro Vision: On the Cusp of Science & Precision,' Nov. 16-17 (Friday and Saturday). Photo/Provided by Hotel Del Coronado

- Micro-Aesthetics II: The Art of Microlaminates: How to Master Ideal Preparation, with Claudia Cia Worschech, DDS, PhD.

#### Periodontic Courses

- Microsurgery I: The Principles of Suturing, with David Cross, DDS.
- Microsurgery II: Connective Tissue Grafting, with Scott Kissel, DMD.

#### Implant Courses

- Implant Microsurgery I: From Planning to Extraction to Placement, with Adriana McGregor, DDS.

- Implant Microsurgery II: Sinus Elevation, with Adriana McGregor, DDS.

#### Auxiliary Course:

- Maximizing the use of Magnification for All: Assistants and Hygienist, with Arvie Malik, RDH, and Karen Nester, DA.

Contact the Academy of Microscope Enhanced Dentistry at (260) 249-1028 (ET) or [admin@microscopedentistry.com](mailto:admin@microscopedentistry.com). Learn more at [www.microscopedentistry.com](http://www.microscopedentistry.com).

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