



Meeting Details:

- Tuesday, February 12th
- Old Spaghetti Factory, Oakland
- 6:00pm – Cocktail Hour
- 7:00pm – Dinner
- 8:00pm – Social Night
- \$30 members, students 1/2 off who call Dr. Williams, 408-924-5050.
- **Reservations due by Friday, February 8th. See back cover for RSVP form.**

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Jason Preece
Camp, Dresser & McKee, Inc.
925-933-2900
chair@aegsf.org

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Upp Geotechnology, Inc.
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vice_chair@aegsf.org

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treasurer@aegsf.org

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Lisa Paulick
Earth Systems Consultants
510-353-0320
secretary@aegsf.org

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Short Course Chair

Ernest Solomon
650-948-3528
shortcourse_chair@aegsf.org

Field Trip Chair

Drew Kennedy
Gilpin Geosciences
fieldtripchair@aegsf.org

FEBRUARY 2002 PROGRAM:

Realism in volcano hazard zonation: Does geo-engineering help provide a more accurate assessment? by Dr. Robert Watters, Ph.D., PE

Significant rock strength reductions as a result of weathering processes often result in slope instability. The strength reduction caused by hydrothermal alteration is not well documented or understood. Hydrothermal alteration differs from weathering in one important aspect; it can both be laterally widespread, as in weathering, but also vertically continuous to great depth. Economic geologists have long recognized the relationship between alteration and mineralization, but only recently has this relationship correlated with rock strength and applied to surface and underground mining or construction excavations. Extrapolating the concepts of engineering slope design to the volcano environment shows potential for improving hazard assessment.

Many stratovolcanoes exhibit significant hydrothermal alteration. Alteration is time-dependent; thus, an initial "stable" volcano undergoes a progressive rock strength reduction, as a result of argillic alteration, which may result in slope instability. Failure volume is related to degree of alteration, orientation of major structures, strength of other lithologies, and external forces such as seismic loading or fluid pressure from eruptive events. The failure mass may form a rock avalanche or lahar, depending on clay or water content. Travel distance for such failures is often measured in tens of kilometers. Many urban areas and transportation routes are constructed on debris deposits from these major events. The Holocene record contains many of these events and the historical record is dotted with failure deposits (present - 400 years) throughout the world. Major slope instability can be independent of eruptive forces, particularly when the failure mass is small (<0.1 cubic kilometer), consequently warning signs may not be readily apparent. Hazard zonation around volcanoes should consider failure volume, failure frequency, previous failure deposits, and the strength and location of weak and potentially unstable rock masses at the edifice and flanks of the volcano. Examples and analyses are presented from volcanoes in the Cascade Range (USA), eastern portion of the Mexican Volcanic Belt and Equador. The types of field investigations performed at elevations up to 18,000 feet to obtain the raw strength data at the landslide source together with volcano modeling and hazard appraisal will be discussed.

SPEAKER'S BIOGRAPHY

Dr. Bob Watters obtained his BS in Applied Geology from the University of Strathclyde, Scotland, and an MS, DIC and Ph.D. all in Engineering Geology from Imperial College, University of London, England. He is a Professionally Registered Engineer in both Geology and Civil Engineering. He has been involved in underground hydroelectric power station design in Zambia, Africa, Trans-Alaska Oil Pipeline route selection, slope stability and landslide mitigation in Alaska and surface and subsurface excavation design for civil and mining projects for Dames and Moore. He currently is Department Chairman in the Department of Geological Sciences at the Mackay School of Mines in the University of Nevada, Reno. Some of his current research projects include landslides of volcanoes, stability of open pit mine slopes, and coastal and submarine instability. His volcano research is ongoing in the Cascade Range of Washington and Oregon, the Mexican Volcanic Belt and some South American volcanoes.

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Committee Chairs

CCGO Liaison

Betsy Mathieson
Exponent Failure Analysis
ccgo@aegsf.org

Legislative Chair

Julian C. Isham
legislative_chair@aegsf.org

Publications Chair

Patrick Drumm
Gilpin Geosciences, Inc.
publications_chair@aegsf.org

Awards Chair

Keil Albert
Geoconsultants, Inc.
awards_chair@aegsf.org

Past Chair

Gary Pischke
Earth Systems Consultants
past_chair@aegsf.org

Newsletter Editor?

Lisa Paulick
Earth Systems Consultants
510-353-0320
secretary@aegsf.org

The AEG San Francisco Section Newsletter is a monthly publication of the San Francisco Section of the Association of Engineering Geologists.

Submittals:

Deadline is the 20th of each month for the following issue. Contact Lisa Paulick by email (newsletter@aegsf.org) for submittal. All submittals are subject to editing for space. Job ads are free if brief.

Address changes: Please submit to Section Secretary, Lisa Paulick (secretary@aegsf.org).

Advertisements:

The newsletter's circulation is about 360 within northern California. Use these low rates to expand your market:

	<u>Monthly</u>	
Business card	\$ 15	\$ 10
1/4 page	\$ 30	\$ 40
1/2 page	\$ 60	

Sponsorship:

Become a Section Corporate Sponsor! Donate to the Section and receive free advertisement each month, recognition for your donation at Section Meetings, and more! For more info on Section Sponsorship, Contact Jason Preece (chair@aegsf.org).

NEWSLETTER STATUS – YELLOW ALERT! THIS IS NOT A TEST!

PLEASE NOTE: There is not yet a permanent replacement for Newsletter editor. If you would like to volunteer to be the Newsletter Editor for the 2001-2002 term, please contact Lisa Paulick (secretary@aegsf.org).

Note:

Webmaster for the Section website is still open. I'm overloaded and, according to Jason, if someone does not volunteer to help, we may not have updates to the Website or any Newsletters soon. To discuss the officer/staff opportunities available, please contact Past Chair Gary Pischke at 510-353-0320 or by email at: past_chair@aegsf.org or current chair Jason Preece @ (chair@aegsf.org).

FEBUARY SECTION MEETING DETAILS

Old Spaghetti Factory, located in Jack London Square, in Oakland.

Jack London Square is at the west end of Broadway in Oakland. There is validated parking for 2 hours in a lot immediately south of the restaurant, valet parking adjacent to the Barnes and Noble bookstore, or parking at meters on the street.

Please make your reservations by Friday, February 8th! See the back cover for the RSVP form. Please FAX all meeting reservation correspondence to Corrine.

I have decided to move the annual San Francisco Section awards night from the traditional January meeting to this months meeting in February in an effort to contact awards recipients. I encourage everyone to attend this months meeting and hear not only a great speaker and presentation, but to also join me in thanking our Section Officers and Committee Chairs for the hard work they have performed for our Section. The Speaker of the Year award will also be presented for the best (as voted by our members) presentation of the last year. I sincerely hope you can all attend.

Keil Albert - SF Section Awards Chair

January Meeting Notes

Gerald Weber worked as a consulting engineering geologist for the past 28 years in the greater Monterey Bay – San Francisco Bay area. He is a consultant for the plaintiffs for the tragic Sacred Falls rock fall. On Sunday, May 9, 1999 (Mother's Day) 80-90 people were gathered at the base of Sacred Falls, an 80 foot waterfall at the terminus of a short 2.2 mile hike in Sacred Falls State Park. Following the rescue operation (on the recommendation of the State Geologist and geologists from the University of Hawaii and the USGS) the park was closed indefinitely until an evaluation of the rock fall hazard could be prepared. This tragedy resulted from a small (25-30 yds³) rock fall that originated about 500 feet above the floor of the valley on the steep, intensely fractured and deeply weathered basalts that form the canyon walls.

Lisa Paulick
Section Secretary

AEG/CDMG WORKSHOP FOR GEOLOGIC CONSULTANTS

Preparation of geologic reports for timber harvesting plans and regional-scale forest management planning documents. Agenda is tentative and speakers are planned - Spring 2002. Registration is at 7:30 am, Day 1 will be a Classroom session including Interactions between Foresters and Geologists-Licensing Issues CLFA Checklist-Technical Advisory Committee on Forest Geology General Questions & Answers. Day 2 has a field trip planned, 7:30 am will gather at the local field trip site, TBA.

Field Trip Leaders: Eureka – Gerald Marshall, Don Braun
Sacramento – Bill Short, Will Harris
Santa Rosa – John Schlosser, Michael Huyette
All Locations: Trinda Bedrossian, Steve Reynolds, Michael Wopat
On Call: Tom Spittler, Burt Hardin Julie Bawcom, Dave Longstreth., Steve Werner

Note: Field Trip agenda will be modified and revised for each location prior to workshop but will cover all topics. Early Registration is March 15, 2002. Email Chair@aegsf.org for more details and watch for registration information by mail or email.

Timber Harvest Plan Preparation on Non-Federal Land, by Davies, R.I. and Spittler, T.E.: DMG Special Publication 120: \$8.00 for printed copy. Available for download (for free) as a 635 KB Adobe Acrobat file. Errata sheet (67 KB) also available separately.

SPRING 2002 ASBOG GEOLOGY LICENSING EXAM REVIEW COURSES

The Association of Engineering Geologists is pleased to announce the Spring 2002 series of review courses for the ASBOG geology licensing exam taught by REG Review, Inc. AEG and REG Review, Inc. have partnered to provide these courses since 1992. In the Spring of 2002 review courses will be offered at new locations in Baltimore, MD and Raleigh, NC – in addition to the Northern and Southern California courses. Course dates and locations are as follows:

Southern California Courses - (2002SC-1)

Woolley's Petite Suites
2721 Hotel Terrace, Santa Ana, CA 92705
DATE - January 31, 2002, 8am - 5pm

Northern California Courses - (2002NC-1)

Samuel Merritt College
Health Education Center
400 Hawthorne Avenue, Oakland, CA 94609
DATE - February 2, 2002, 8am - 5pm

Northeastern US Courses - (2002NEUS-1)

Best Western Baltimore-Washington Airport
6755 Dorsey Road, Elkridge, MD 21075
DATE - February 8, 2002, 8am - 4pm

Southeastern US Courses - (2002SEUS-1)

Best Western Crabtree
6619 Glenwood Avenue, Raleigh, NC 27612
DATE - February 9, 2002, 9am - 5pm

California Courses are \$385 for AEG members, \$400 for nonmembers. ASBOG Courses are \$340 for AEG members, \$355 for nonmembers. Preregistration deadline is January 10, 2002.

REG Review, Inc. has been teaching these courses in California since 1985. In March 2000, we directed our teaching towards the ASBOG geology licensing exam. The pass rate for students in classes since then has ranged from 85 to 98%. The courses are taught by Patti Sutch, California RG 3949, CEG 1641, and CHG 25, and Lisa Dirth, California RG 3951, CEG 1240, and North Carolina RG by ASBOG exam.

For current information on 2002 study manuals, flash cards, and courses contact REG REVIEW, Inc. online at <http://regreview.com>³⁷ Rosewell Road, Bedford, NH 03110. On the East Coast call Lisa Dirth at 603-472-3050, (fax) 603-471-1969. West Coast evenings Patti Sutch at 650-947-8899.

AIPG/CCGO Geoscience Awards, California State Science Fair

Reported by Dave Sadoff, CPG 09933, NCGS newsletter

On behalf of the California Council of Geoscience Organizations and the American Institute of Professional Geologists, I attended the 2001 California State Science Fair to judge and present two Geoscience Awards on 22 May 2001. The Fair was held at the California Science Center, adjacent to the University of Southern California in Los Angeles. The California Science Center opened in 1998, and consists of 5* acres of buildings and grounds. A Natural History Museum and Imax Theater anchor the facility.

Earth Sciences was one of eighteen categories represented at the Fair. Twenty-eight junior division and ten senior division earth science exhibits were featured. Exhibitors qualified by placing in at least two previous local science fairs. All of the exhibits were of superior quality, making for difficult decisions by this judge.

The winner of the junior division was Emma Kelsey, for her project "Big Lagoon: Salinity vs. Time." Ms. Kelsey generated data by taking measurements while traversing Big Lagoon in a canoe over the course of a year. She was able to time the periodic Pacific Ocean breakthrough of a sand bar from her data.

Julie Gilbert was the winner of the senior division for her project "Blast of Ash from the Past!" Ms. Gilbert collected ash samples from five volcanic venues. She then analyzed the samples for chemical composition, and was able to deduce the type of volcano responsible for the corresponding sample. In a thank you letter, Ms. Gilbert said "even though this is my last year of high school, I'm not finished with my science fair project yet... I want to continue doing research on it while I'm in college... I'm really starting to get curious about what would happen to my results if I were to get several other volcanic ash samples from around the world and analyze them... Who knows where this could lead?"

Each winner received a handsome certificate, a check for \$250, and a one year subscription to TPG. I wish to express my gratitude to the AIPG Foundation, Inc. for their generous matching grant.

It was very satisfying to see such enthusiastic and scholarly earth Science project exhibitors. I hope many of these young people will enter the earth sciences profession. I am already looking forward to next year's California State Science Fair.

NCGS 2002 Calendar

Wednesday February 27, 2002 James Moore, USGS Menlo Park
"Exploring the Highest Sierra" Orinda Masonic Center

Wednesday March 27, 2002 Donald L. Gautier, USGS Menlo Park
"The Ghost of Malthus, the Global Greenhouse, and the Perilous Geography of Petroleum" Orinda Masonic Center

Wednesday April 24, 2002 Charlie Bacon, USGS Menlo Park
"New Insights into the Geology of Crater Lake" (tentative title) Orinda Masonic Center

Wednesday, May 15, 2002 AAPG Distinguished Lecture James

Harrell "Archaeological Geology in Egypt: Ancient Oil Wells and Mummy Bitumen, Earliest Geological Map, First Paved Road, Pyramid Temple Pavements, and the Sphinx Age Controversy" Orinda Masonic Center

FOP FIELD TRIPS

The Friends of the Pleistocene, Pacific Cell, holds annual (usually three days in the fall) field trips that focus on neotectonics, paleoseismology, geomorphology, and other aspects of Quaternary geology. Attendance usually exceeds 150 people, and the trips are a terrific mix of serious science (best discussions and debates you'll ever hear on field trips) and serious fun (imagine 150+ geologists camping out and you get the picture). To make sure you are informed of future trips, sign up for the FOP Pacific Cell email list by following the simple instructions of the Pacific Cell FOP website at: <http://pacific.pleistocene.org/> John Caskey of SF State will be leading the 2002 trip to the Central Nevada Seismic Belt. To see annotated photos from the 2001 trip see the page on John Wakabayashi's website at: <http://www.tdl.com/~wako/geopics.html>

John Wakabayashi

NEW SHORT COURSE ANNOUNCED

Sands Figuers has agreed to do a short course on balanced cross sections. The matter of applicability to evaluation of landslide slip plane geometry will be addressed. Date and venue to be determined. If you know of a venue please contact: shortcourse_chair@aegsf.org.

And, a course on logging of exploration boring is being planned...probably late fall-early winter, as soon as the putative instructor's work load drops from very busy to merely busy.

Please forward all suggestions for or offers to teach/lead interesting short courses to: esolo@earthlink.net.

ERNEST SOLOMON,
Short Course Chair

AEG PARTICIPATION AT THE GSA CORDILLERAN SECTION MEETING, MAY 2002

AEG will be participating at the GSA Cordilleran Section Meeting in Corvallis, Oregon, May 13-15, 2002. A preliminary announcement will be forthcoming in an upcoming GSA Today publication.

This notice is a feeler to determine what the level of interest might be for participating in a special session on engineering geology of landslides. If you are interested in participating in a landslide theme session at this conference, please contact Scott Burns ([503-725-3389](tel:503-725-3389), burnss@pdx.edu) or Charlie Hammond ([503-452-1200](tel:503-452-1200), charlieh@landslidetechnology.com). The proposed theme session information is as follows:

ENGINEERING GEOLOGY CASE HISTORIES OF LANDSLIDES
GSA Engineering Geology Division; Association of Engineering Geologists

Scott Burns, Portland State University, Portland, OR, and Charles

Hammond, Landslide Technology, Portland, OR
Landslides are intimately connected to geology, and engineering geologists are a critical part of landslide investigation, modeling, analysis and mitigation. Experienced practitioners will provide insights into critical issues of landslide evaluation, and case histories covering a variety of landslide impacts at various levels of owner requirements.

CONCEPT OUTLINE FOR THEME SESSION

Presentations could include one or more of the following topics:

Introduction:

When are Slides a Risk to Man and/or Environment, Understanding Owners Needs and Abilities, Mapping and Modeling, Methods of Investigation and Monitoring, Stability Analysis and Understanding Factor of Safety, Mitigation Techniques

Setting:

Home, development, railroad, highway, forest, utility (gas, water, power, other), marine, mining, other

Level of Evaluation:

Seat-of-the-Pants, Limited/Specific, Thorough, Cost is Not an Issue. Other topics are also encouraged.

WASHINGTON LICENCING FOR GEOLOGISTS Just a reminder that the State of Washington is now accepting applications for geologist licensing, with specialty licenses available in engineering geology and hydrogeology. All licenses must be issued under the grandparenting provision of the geologist licensure law by June 30, 2002. On and after July 1, 2002, applicants must pass a test prior to being issued a license. Please go to: www.wa.gov/dol/bpd/geofront.htm a geologist's web page, which provides additional links to application forms and instructions, as well as the law and rules.

Ken Neal

NOTE FROM THE NEW SECRETARY AND NEWSLETTER EDITOR

"99% of all the things I worried about in life never took place." The slow but sure process of organization continues. If you did not receive a Newsletter last month until the night of or a few nights following the meeting, I apologize. The holiday threw many for a loop, and though I won't get into any gory details, many few thrown around with it. I appreciate the emails and letters that were sent to me and always listen and try to respond to any comments. Thanks for your patience and your help!

Lisa Paulick (secretary@aegsf.org)
2001-2002 San Francisco Section Secretary
Newsletter Editor, Webmaster

SEISMIC HAZARDS MAPPING PROGRAM

www.consrv.ca.gov/dmg/shezp/shzmpfs.htm
Hot Topics

Three New Preliminary Seismic Hazard Zone Maps were released on December 21, 2001. Santa Paula quadrangle in Ventura County, San Clemente quadrangle in Orange County, and Mountain View quadrangle in Santa Clara County. The Official Orange County

Maps are of San Juan Capistrano and Dana Point quadrangles .

The California Department of Conservation is mandated by the Seismic Hazards Act of 1990 (Public Resources Code 2690-2699.6) to identify and map the state's most prominent earthquake hazards in order to help avoid damage resulting from earthquakes.

The department's Seismic Hazard Zone Mapping Program will ultimately chart areas prone to liquefaction (failure of water-saturated soil) and earthquake-induced landslides throughout California's principal urban and major growth areas.

The maps are used by cities and counties to regulate development and by property owners selling property within areas where seismic hazards have been identified. Local governments can withhold development permits until geologic or soils investigations are conducted for specific sites and mitigation measures are incorporated into development plans.

Sellers of property use the maps to check the location of their specific site and, if applicable, disclose to the buyer that the property lies within a seismic hazard zone.

Local governments or other parties produce seismic hazard maps for selected areas or for special purposes. However, the department's maps are different from these types of maps in three key aspects.

A standardized method of hazard assessment to evaluate hazard potential has been used consistently for the entire state. The department's earth scientists integrate the latest geotechnical data with state-of-the-art computer technology. These are the first seismic hazard maps to use a scale (1:24,000) large enough to provide a detailed look at a large region.

To produce the maps, the department's experts examine the latest information about surface and subsurface geology, historic groundwater levels and damage, and geologic effects resulting from the Northridge and other California earthquakes. State-of-the-art geographic information system technology is used to integrate the information into a three-dimensional view of the ground.

Each map covers an area of approximately 60 square miles. Each map is distributed in preliminary form for a 90-day technical review and comment period before release as an official map.

The first maps produced by the program were released for review in October 1996. As of March 29, 2000, there are 43 official maps covering parts of 107 cities and unincorporated areas in Los Angeles, Orange, San Francisco, and Ventura counties. The next preliminary review maps should be released about May 15, 2000.

The mapping program was originally funded by the Earthquake Insurance Fund and a portion of construction building permit fees. In the early 1990s, however, funding for the program was greatly reduced when the recession slowed construction and the Earthquake Insurance Fund was cancelled.

However, the department was able to continue the program with

federal hazard mitigation funds from the Federal Emergency Management Agency, through the Governor's Office of Emergency Services. These funds provide for production of more than 70 official seismic hazard zone maps in Southern California counties affected by the 1994 Northridge earthquake.

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MOVING NOTICE

I have moved to "Bigfoot country". I was promoted to Branch Chief in Caltrans Geotechnical Design-North and transferred from District 04 in Oakland to District 01 at the Eureka office. My mailing address is 1656 Union Street, Eureka, CA 95501. The e-mail address is the same. I would appreciate you passing this on to all my friends in the San Francisco Section.

Bob Baker
Member since 1986
Robert_Baker@dot.ca.gov

CartoSearch Cartographic Research Services

Danica L. Stein
P.O. Box 3735
Santa Cruz, California 95063
(831) 465-9479
danicas@baymoon.com

DO YOU need aerial photographs? Copies of maps? Journal articles?

CartoSearch can help. Located in Santa Cruz, California, CartoSearch is a research service specializing in all things map- and photo-related. I was a Library Assistant in the UC Santa Cruz Map Room for six years, helping clients like you find aerial photos, maps, articles, reports, etc. Here is what CartoSearch can do for you:

- Aerial photograph and/or map research. Give me the site location and dates, and I'll go to the UCSC Map Room and research the relevant photos for you.
- Digital photographs of (non-copyrighted) aerial photos, topographic maps, Sanborn Fire Insurance maps, and/or atlases. Files could be brought to your office on floppy disk or CD-ROM, and/or sent via FTP.
- Photo scanning. I'll scan the photos and FTP them to you and/or deliver the disk to your office.
- Other legal copying methods as you require, such as regular or color photocopying.
- Photo pick-up, delivery, return, and renewal.
- Legal copying of reports or other documents held in the UCSC Library; referral to other library resources as needed.
- Retrieval /photocopying of material at Stanford, the USGS in Menlo Park, and UC Berkeley.
- Copying and delivery of journal articles.
- Overnight delivery of items via Federal Express for clients not located in Santa Cruz.

Call, write, or email me today and put CartoSearch to work for you. Thank you!



(AP PHOTO)

The lava ran through the heart of the city

The Mount Nyiragongo volcano in Congo has burst into life, sending a river of molten rock into the city of Goma, killing more than 40 people. The eruption turned the city of more than 500,000 into a virtual ghost town, with molten rock reducing roads and buildings to fiery ash. Thousands of displaced people have now started returning home, defying warnings from the military and from the U.N.

www.cnn.com

Lisa Paulick
34892 Sea Cliff Terrace
Fremont, CA 94555

AEG November Newsletter
February 12 – Monthly Section Meeting
Old Spaghetti Factory, Oakland

CHECK OUT THE AEG SF SECTION WEBSITE AT WWW.AEGSF.ORG!

RESERVATION FORM – February 12, 2002 AEG Dinner Meeting, 6pm
Old Spaghetti Factory, Oakland

Please fax your reservation to arrive before *noon*, Friday, February 8th

Fax to Corinne Stewart, c/o Pacific Geotechnical Engineering (408-779-6879) - Check or Cash at the door – Do not mail or fax payment.

Dinner and Meeting Cost: \$30 – members or spouses \$15 – student members \$32 – others

Make checks payable to: AEG SF SECTION

NAME _____ COMPANY _____

TELEPHONE NO. _____ NO. OF PEOPLE _____

PLEASE CHOOSE AN ENTRÉE: **CHICKEN FETTICHINI** **MEAT LASAGNA**

PERMANENT RESERVATION FORM

AEG San Francisco Section Monthly Dinner Meetings are usually but not always on the 2nd Tuesday of each month.

I will attend and make payment for each meeting. If I am unable to attend I will fax or mail a cancellation notice to Corinne Stewart (fax: 408-779-6879) by noon, the Friday before the meeting.

NAME _____ TELEPHONE NO. _____

BILLING ADDRESS _____

SIGNATURE _____ DATE _____

Dinner Costs are normally but not always: \$30 – members or spouses \$15 – student members \$32 - others
