**Last Call for 2010 Annual Meeting**

The 2010 EERI Annual Meeting kicks off Wednesday, February 3, 2009, at the Parc 55 Hotel in the heart of downtown San Francisco, with the theme “Back from the Future.” Thanks to advanced technology, attendees will hear a presentation by the reconnaissance team for the great 2056 San Francisco Bay Area earthquake. Included will be Shake-maps both for the 2056 earthquake and a number of events that preceded it. The team, of course, will not actually visit the earthquake sites; instead, it will assemble at the EERI office on the 100th floor of the Transit Center Tower to process the thousands of eyewitness accounts contributed to the electronic “cloud” by volunteers and professionals. Thousands of automated records from digital seismographs in garages and homes throughout the Bay Area will be available. Attendees can also evaluate the controversial design of the Golden Gate sea level rise barrier (and fishing pier) completed in 2051.

**Boat Ride Field Trip Finalized**

An exciting two-hour boat trip to the new eastern span of the San Francisco-Oakland Bay Bridge will conclude the Annual Meeting on Saturday, February 6. Brian Maroney, who led Caltrans’ in-house design team and served as project manager, will provide design and construction commentary during the tour. Buses to the dock will leave Parc 55 at 2 p.m. and return to the hotel at approximately 5 p.m. The cost of this optional field trip is $50.

**Travel Grants for 9USN/10CCEE**

The U.S. National Science Foundation (NSF) and Canadian Association for Earthquake Engineering (CAEE) have made US $50,000 and Can $10,000 available to award travel grants to students, early academics, and early professionals to defray costs of attending the 9th US National and 10th Canadian Conference on Earthquake Engineering (9USN/10CCEE). These grants are being coordinated by EERI. Awards made from NSF funds are limited to students and early academics who reside in the U.S., attend a U.S. university, or teach at a U.S. university as of March 1, 2010. Awards made from Canadian funds can be made to students, early academics, and early professionals who reside in Canada as of March 1, 2010. All recipients will be expected to contribute 4 hours of voluntary service during the conference. We anticipate funding up to 50 U.S. participants and up to 20 Canadian participants. The application deadline is March 1. For information about the award selection criteria and the application procedure, visit [http://2010eqconf.org/travel-grants/](http://2010eqconf.org/travel-grants/).
The recipient of the 2008 EERI-FEMA Professional Fellowship in Earthquake Hazard Reduction, Erol Kalkan, recently completed his comprehensive report entitled Practical Guidelines to Select and Scale Earthquake Records for Nonlinear Response History Analysis of Structures. Kalkan worked for two years under the supervision of Professor Anil Chopra at UC Berkeley. His study focused on developing and evaluating the modal-pushover-based scaling (MPS) method for scaling ground motions for use in nonlinear response history analysis of buildings. Six building structures with fundamental periods ranging from 0.6 to 5.6 sec, representing low-, mid-, and high-rise building types in California, as well as two bridges, were utilized for testing the MPS procedure. The ASCE 7-05 procedure was also applied to buildings in order to compare its performance with the MPS procedure in predicting the median engineering demand parameters (EDPs) and reducing their dispersion.

The comparison led to four conclusions: (1) the MPS procedure leads to scaled ground motions that yield more accurate estimates of median EDPs; (2) the MPS procedure is efficient, as the dispersion of responses due to ground motion is much smaller compared to the ASCE 7-05 scaling method; (3) the practical version of the MPS method uses attenuation relations for elastic spectral ordinates that are currently available; new attenuation relations for inelastic spectral deformation are not required; and (4) for first-mode dominated structures, scaling earthquake records to the target value of the inelastic deformation is sufficient in producing accurate estimates of median EDPs and in reducing the dispersion of EDPs due to individual ground motions. Selecting a subset of highest-ranked ground motions leads to a method that is more accurate and efficient for estimating seismic demands for taller buildings.

To obtain the report, visit http://www.eeri.org/site/fellowship-winners#prof. It will also be published soon as a USGS Open File Report. Kalkan extends thanks to EERI for the fellowship and to professors Rakesh Goel, Sashi K. Kunath, Carlos Ventura, and Dr. Emrah Erduran for their support in development of the OpenSEES models.

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**EERI Endowment Fund Donors**

EERI would like to thank the donors to the Endowment Fund shown below and acknowledge their recent contributions. EERI’s Endowment supports those innovative projects that ensure the Institute’s continuing leadership in the earthquake engineering professions.

- **$2,500**
  - I. M. Idriss

- **$1,100**
  - Lloyd S. Cluff

- **$500**
  - Hassan Sughayer

- **$200-$499**
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  - William A. Anderson
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  - Rolf Sagesser
  - Tom Schacher
  - Robbie Warner

- **$50**
  - Hassan Sughayer

- **Other Amounts**
  - I. M. Idriss
  - Lloyd S. Cluff
  - Hassan Sughayer

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**Annual Meeting continued from page 1**

**Subscribing Member Sponsorship Opportunities**

In addition to FEMA, EERI thanks the following Subscribing Members that are sponsoring the Undergraduate Student Design Competition during the Annual Meeting: Computers and Structures, Degenkolb Engineers, Digitexx, the Pacific Earthquake Engineering Research Center (PEER), and Kinematics. There are many other sponsorship opportunities! Subscribing Members who are interested in fully or partially sponsoring one of the following events should contact Sonya Hollenbeck (sonya@eeri.org): the banquet, one of three luncheons, the poster session, the Meet the Mentors Reception, or one of four coffee breaks.

**Register Now!**

EERI members should have received their Annual Meeting brochures in the mail. Information is also available at www.eeri.org, along with online registration and a link to hotel reservations. The early registration deadline is January 13, which will save you $50. Make your hotel reservations by January 13 to help EERI fill its room block! Take action now — you won’t want to miss this provocative meeting!
News of the Profession

NGA-East Project News

With funding from the U.S. Nuclear Regulatory Commission, the Electric Power Research Institute, and the U.S. Department of Energy, the Pacific Earthquake Engineering Research Center (PEER), an EERI Subscribing Member, is coordinating a comprehensive multidisciplinary program to develop next generation attenuation relationships for the central and eastern United States (NGA-East).

Request for Proposals for Development of GMPEs

A request for technical proposals has been released for the purpose of developing next generation ground motion prediction equations (GMPEs) for the central and eastern U.S. (CEUS). The use of developer teams rather than an individual model developer is encouraged. The deadline for technical proposal submission is January 29, 2010.

For more information about proposal submission and selection, visit http://peer.berkeley.edu/ngaeast/requests/transportation_rfp_12-09.html.

NGA East “Sigma” Workshop

PEER is coordinating a public “Sigma” Workshop on February 10, 2009, that will focus on issues related to the uncertainty in the GMPEs for the CEUS.

News of the Institute

Liquefaction Seminar Heading East

Following their successful tour in March 2009, I. M. Idriss and R. W. Boulanger (professor emeritus and professor, respectively, at the University of California, Davis) will visit three more cities with their popular day-long seminar, “Soil Liquefaction During Earthquakes.” It is based on their 2008 EERI monograph, which encompasses methods for predicting the consequences of liquefaction such as slope instability or ground deformations, mitigation of liquefaction hazards, and cyclic softening of clays and plastic silts. The seminar will be held April 30 in Secaucus, New Jersey; May 14 in Atlanta, Georgia; and May 21 in Chicago, Illinois. Watch for registration information in future newsletters.

The monograph Soil Liquefaction During Earthquakes can be ordered for $45 (nonmembers $60) by visiting https://www.eeri.org/cds_publications/catalog and clicking on Publications in the left column, then Monographs. An E-Book version is also available for $25 (nonmembers $40).

Idriss to Receive ASCE Peck Award

I. M. Idriss, an EERI member since 1972, will receive the 2010 Ralph B. Peck Award from the Geo-Institute of ASCE. Idriss is being recognized for “his extensive contributions to geotechnical earthquake engineering design methodologies and practice based on the evaluation of case histories.” The selection committee noted his extraordinary career as a consultant, researcher, and teacher. Idriss joined the UC Davis faculty in 1989, after 20 years at Woodward-Clyde Consultants, where he was a senior principal. He’s been heavily involved in research, development, and application of engineering procedures in geotechnical earthquake engineering since 1964.

He continues to serve on several consulting or review boards for U.S. and international companies and for state and federal agencies. He was elected to the U.S. National Academy of Engineering in 1989.

WSSPC Award Winners

The Western States Seismic Policy Council Board has announced the winners of the 2010 WSSPC Awards in Excellence. The Overall Award in Outreach to the General Public and Non-Profit Agency Efforts went to the Humboldt County Chapter of the American Red Cross, for their one- and three-hour courses, “Living on the Faultline — and Along the Coast in Humboldt County.” Other Awards in Excellence went to the Oregon State Legislature for Oregon Senate Bill-5505, and the Nevada Bureau of Mines and Geology for the map, “Quaternary Faults in Nevada,” in the legislation and research categories, respectively.

The awards will be given at the 2010 WSSPC Annual Conference held with the Natural Hazards Center Workshop at the Omni Hotel in Broomfield, Colorado. For more information about the awardees, visit www.wsspc.org.
News of the Institute
Summary of the Minutes of the Board of Directors Meeting of September 22, 2009

President Farzad Naeim called the meeting to order at 8:35 a.m. Also present were Directors Thalia Anagnos, William Anderson, S. K. Ghosh, Jack Moehle, Masayoshi Nakashima, Secretary/Treasurer Marshall Lew, outgoing Executive Director Susan Tubbesing, incoming Executive Director Jay Berger, and Publications Manager Eloise Gilland. Directors Reginald DesRoches and Andrew Whittaker were unable to attend. Naeim welcomed Berger to his first EERI Board meeting.

Publications sales report: The publications sales report as of August 31, 2009, indicated continuing strong sales of the Soil Liquefaction During Earthquakes monograph, amounting to $14,400 so far this year, plus $3,785 for the e-book version. It was noted that the monograph’s authors, Ed Idriss and Ross Boulanger, have offered to do two or three more seminars in 2010 based on their popular monograph. Tubbesing will thank Idriss and Boulanger for their interest in doing seminars in the east and will work with them to make that happen in 2010.

Membership report: The Membership Report indicates that EERI lost 139 individual members from September 2008 to September 2009. Most of the decline was due to 86 fewer e-students. Tubbesing said a blast promotion had been done to faculty. Student chapters need to be revitalized. Anagnos said the loss of funding to the earthquake centers may be a contributor to the decline, as they had strong outreach programs. On the brighter side, Tubbesing remarked that the number of Subscribing Members has grown from 49 to 52 in the past year.

ICC Agreement: The Board reviewed a draft of the agreement between EERI and the ICC Member Services Department. It indicates that each organization will extend a 30% discount on membership dues to the members of the other organization for the first year of membership. Moehle commented that the Board should evaluate the agreement after a year to see if it has contributed to an increase in EERI membership, as it also has the potential to take members away. Anderson moved that the Board approve the agreement and that it be evaluated after one year. The motion was seconded and passed unanimously.

Spectra Special Issue: Naeim reported that the USGS has agreed to subsidize a special issue of Spectra on the Great Southern California ShakeOut of 2008. There will be a call inviting submittals in addition to those from authors already lined up. It is anticipated that this large special issue will create extra work for Spectra editorial assistant Liz Stalnaker. Tubbesing will confer with Stalnaker on the schedule and work with USGS regarding the transfer of funds. The Board agreed that it could be a very popular issue and reach a broader audience than Spectra’s regular readers, requiring a focused marketing campaign.

NGA Technical Seminars: The seminars on Next Generation Attenuation Models were well attended: 125 in Los Angeles, 105 in San Francisco, 70 in Seattle, and 60 in Salt Lake City. Attendees were pleased to have pdfs of the presentations, but some found the black and white figures hard to interpret. In the future, instructions should be given to authors regarding shading their graphics for reproduction in black and white, or alternatively, printing selected pages in color.

Secretary/Treasurer’s Report
Overview of revenue and expense reports: The Report on Revenue and Expenses as of July 31, 2009, reflects that time and money are being spent on preparations for the 2010 Annual Meeting and the 9USNCEE/10CCEE, resulting in a deficit in those categories for 2009. The 2009 budget originally projected an overall deficit but expenses have been lower than projected, and seminar revenue higher, so Lew anticipates a surplus at the end of the year.

The Liquefaction Seminars brought in $65,088 over and above expenses. The NGA seminars brought in $53,130, so the combined revenue of the seminars was $118,000. Speakers received modest honoraria.

Naeim observed that EERI seminars are most successful if they explore new developments.

The combined balance sheet showed an opening fund balance of $174,613 increased by $329,657 in revenue over expenses. EERI’s total liabilities of $159,865 combined with the total fund balance of $504,270 equaled $664,135. The Endowment Program’s total liabilities in the amount of $339,720 combined with the total fund balance of $1,013,535 equaled $1,353,256. The balance of the combined association, endowment, and technical programs equaled $2,017,391.

Lew noted that the current difficult economy requires very careful money management. The Shah Innovation Prize is invested in fixed income stocks and bonds to produce money for the prize. Because of the good performance of the market during the last few months, the funds returned to and increased in value from one year ago, from $149,000 in July 2008 to $152,000 in July 2009. Because of a drop in earnings, the last prize was smaller — $5,000 instead of $10,000. The fund is currently generating $9,000 per year. Depending on the market, it may be possible to return to the full $10,000 prize next year.

The Friedman Fund in July 2008 was $199,930 and in July 2009 was $197,438. It has almost returned to its 2008 value. It is conservatively invested in order to preserve capital and generate sufficient income to support travel for the visiting profes-
Alquist Medal design: Tubbesing recently discussed issues in the current draft of the NEHRP re-authorization with Meghan Housewright of the House Science and Technology Committee. The earthquake community feels that more resources are needed and wants to make sure the authorization levels are not reduced. An all-hazards approach without enough money is not acceptable. Anderson noted the significance of Congress calling on EERI for input on policy issues.

Joint US/Canada National Conf. Abstract review process: Gilland reported that 1257 abstracts were accepted and 154 were rejected. Papers will be due in November.

Travel grants: Tubbesing reported that the National Science Foundation travel grant funding will provide $50,000 for up to 50 students and early academics. Scott Olson of the University of Illinois is chairing the grant review committee as the incoming chair of the Student Activities Committee. Several Shah prize recipients are on the review committee, plus two Canadians nominated by the Canadian Association for Earthquake Engineering, which is providing an additional $10,000 for 20 awards to young Canadian academics and professionals. The announcement will be made in December, with notification in April.

Exhibitor & Financial Sponsor package: The Board reviewed photocopies of the final Exhibitor-Sponsor brochure. Copies will be sent to Board members as soon as printed. Gilland noted that 1,000 brochures were ordered. Exhibits co-chair Don Goralski has compiled a list of approximately 500 prospective exhibitors. The Canadian fundraising co-chair Tibor Kokai provided a list of 60 companies in Canada who are prospective financial cosponsors, and Tubbesing has composed letters to a variety of organizations to go with the brochure.

International E-membership: Naeim proposed a trial period of two years for a new type of international membership — an E-Affiliate membership with annual dues of $25 for new members in identified developing countries. If they choose to pay an extra $10, they will receive a printed roster. They would have no voting rights. They would have access to the online newsletter and roster, access to a limited number of Spectra papers (not to exceed two from any given issue) determined by an international subcommittee and placed in the members-only section of the website. Ghosh moved that the Board approve the creation of a new E-Affiliate membership proposed by Naeim for a trial period from January 2010 until the end of 2011, with success measured in terms of the number of people joining EERI. In addition to Naeim's proposal, E-Affiliate members would receive a certificate of membership. The motion was seconded and passed unanimously.

Naeim adjourned the meeting at 1:50 p.m.

EERI Distinguished Lecturer Abrahamson to Visit NRC

The U.S. Nuclear Regulatory Commission is supporting the travel of EERI’s 2009 Distinguished Lecturer, Norman Abrahamson, to present his lecture on January 5, 2010, from 1:00 to 3:30 p.m. at the NRC Headquarters in Rockville, Maryland. Abrahamson’s lecture is entitled “The State of the Practice of Seismic Hazard Analysis: From the Good to the Bad.”

There is no charge to attend. For more information about the agenda and venue, visit http://www.nrc.gov/public-involve/public-meetings/index.cfm. For more information about the lecture, see page 2 of the March 2009 Newsletter.
Announcements

NSF Workshop on Future of EQ Engineering

A National Science Foundation-sponsored workshop entitled “Vision 2020: An Open Space Technology (OST) Workshop on the Future of Earthquake Engineering” will be held January 25-26, 2010, in St. Louis, Missouri. The workshop goals are (1) to derive the emerging principal new directions in earthquake engineering research, practice, education, and outreach to be followed by the earthquake engineering community in the next 10 years; and (2) to maximize the use of NSF NEES facilities to facilitate rapid progress along these new directions. 70 participants selected by the Workshop Planning Committee will be sponsored to represent the diverse aspects of the earthquake engineering community, including structures, geotechnical, geoscience, seismology, tsunamis, social science, public policy, insurance and finance, cyber-physical, and sustainability. There will be 30 open seats for self-supported participants.

All participants attending must register for the workshop by January 10. The registration fee is $150 and includes breakfast and lunch. For more information and to register, visit https://www.nees.org/training/workshop_detail/eqev2020/.

USGS NorCal EQ Hazards Workshop

To better align internal and external research efforts to best achieve scientific goals in Northern California, the USGS Earthquake Program will host a two-day workshop, January 25-27, 2010, at the USGS campus in Menlo Park. All USGS researchers are invited to present their most current results for northern California. The status of a number of major ongoing large-scale projects will be discussed.

The workshop is open to anyone in the scientific community interested in better defining earthquake hazards and risk in Northern California; there is no registration fee. For online registration, visit https://sslearthquake.usgs.gov/regional/nca/workshop/. The registration deadline is January 8. This webpage also has a link to a required template for research summaries, which are due by January 11.

Calls for Papers

Bangladesh EQ Symposium

The Bangladesh Earthquake Society and the Bangladesh University of Engineering and Technology are jointly organizing the Third International Earthquake Symposium, Bangladesh (IESB-3) in Dhaka, March 5-6, 2010. Abstracts no longer than 300 words should be sent by December 31, 2009, to iesb3dhaka@gmail.com in the topic areas of earthquake engineering, seismology, and earthquake disaster management.

Conference on Structures in Fire

A call for papers has been issued for the Sixth International Conference on Structures in Fire (SiF’10), co-sponsored by the Structural Engineering Institute of the American Society of Civil Engineers and the Society of Fire Protection Engineers. It will be held June 2-4, 2010, at Michigan State University in East Lansing. Abstracts of approximately 250 words are due by December 31, 2009. For information on topics and submission, visit www.egr.msu.edu/sif10.

ROSE School Prize

The Eucentre Foundation in Pavia, Italy, has announced the 2nd edition of the ROSE School Prize, given by the Centre for Post-Graduate Training and Research in Earthquake Engineering and Engineering Seismology.

The prize rewards professionals and academics at any stage of their careers who have demonstrated uncommon skills in education or exceptional creativity and innovation capacity in the fields of earthquake engineering and engineering seismology, and have achieved extraordinary research and professional achievements.

Individuals in government, private firms, academia, and the international community are encouraged to nominate eligible candidates. Nominations must be e-mailed by January 22, 2010, to prize.nomination@roseschool.it. For nomination information, visit http://www.rose-school.it/prize/home.html.

Subscribing Member News

CSI Online Training

EERI Platinum Subscribing Member Computers and Structures is hosting the following software training programs online in January 2010. To register, visit http://orders.csiberkeley.com/SearchResults.asp?Cat=20.

SAFE V12, January 14 (1 to 2 p.m.), January 28 (10 to 11 a.m.) PDT, $35 per person: A tool for designing reinforced and post-tensioned concrete floor and foundation systems.

SAP2000 Introduction to Bridge Modeler, January 14 (10 to 11:30 a.m.), January 28 (1 to 2:30 p.m.) PDT, $95 individual/$500 group.

SAP2000 Seismic Bridge Design, January 15 (1 to 3 p.m.), January 29 (10 am to 12 noon) PDT, $95 individual/$500 group.
The issue containing the first appearance is indicated at the entry's end. Items listed for the first time are shown in bold.

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<th>Date</th>
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<td>5. EERI Distinguished Lecture “The State of the Practice of Seismic Hazard Analysis,” NRC, Rockville, MD.</td>
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<td>25-26</td>
<td>NSF Workshop: Future of EQ Eng, St Louis, MO.</td>
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<td>USGS NorCal EQ Hazards Workshop, Menlo Park, CA.</td>
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<td>NGA East “Sigma” Workshop, Berkeley, CA.</td>
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<td>21. Soil Liquefaction Seminar, Chicago, IL.</td>
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<td>22-27</td>
<td>10th Chilean Conf. on Seismology &amp; EQ Eng., Valdivia-Santiago, Chile.</td>
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<td>20th World Conf. on Disaster Mgmt (WCDM), Toronto, Canada.</td>
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<td>11-15</td>
<td>5th Int’l Conf. on Bridge Maintenance, Safety &amp; Mgmt (IABMAS), Philadelphia, PA.</td>
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<td>25-29</td>
<td>9th U.S. Nat’l &amp; 10th Canadian Conf. on EQ Eng., Westin Harbour Castle Hotel, Toronto, Canada.</td>
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<td>10-13</td>
<td>5th Int’l Geotechnical EQ Eng. Conf. (5-ICEGE), Santiago, Chile.</td>
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Announcement

**Risk Mitigation and Sustainability Conf.**

The Advanced Conference on Seismic Risk Mitigation and Sustainable Development will be held May 10-14, 2010, in Trieste, Italy, conducted in English. The topics range from seismology, geology, and geophysics to engineering and decision-making problems. Members of the United Nations, UNESCO, or IAEA may attend. Limited funds are available for some participants under age 45 who live and work in developing countries. To apply, visit http://cdsa-agenda5.ictp.trieste.it/full_display.php?smr=0&ida=a09145. The deadline is January 10, 2010.
NEES News

CCEER at UNR Celebrates 25 years

On December 14, the Center for Civil Engineering Earthquake Research (CCEER) at the University of Nevada, Reno, College of Engineering and the Department of Civil and Environmental Engineering celebrated its 25th anniversary by conducting a demonstration on its new 4th shake table.

For the demonstration, a room was built on the shake table — a typical office with furniture in it. It was subjected to three ground motions: the M4.7 Mogul quake, the M6.7 Northridge quake, and an extremely violent seismic motion used to qualify industrial equipment.

CCEER comprises two research laboratories, one in geotechnical engineering and the other in large-scale structural systems. The Large-Scale Structures Laboratory is a member of the George E. Brown Jr. Network for Earthquake Engineering Simulation (NEES) established by the National Science Foundation in 2004. Its new triaxial 50-ton-capacity shake table moves in six different directions and will greatly enhance the site’s ability to more accurately represent earthquake motion.

To view the web cast of the entire anniversary demonstration, visit http://cceer.unr.edu/events/cceer25th.html.

A typical office was built and tested on the new triaxial 50-ton-capacity six degree-of-freedom shake table at UNR’s CCEER.

Publications

EEFIT Online Reports

The UK-based Earthquake Engineering Field Investigation Team (EEFIT, www.eefit.org.uk) has made available 25 years of earthquake reconnaissance reports at no charge. Practitioners, researchers, and students can download the field reports from EEFIT missions to 23 earthquake-affected areas, including one recent-