

Meeting Minutes – FINAL
CSRC Executive Committee (EC) Teleconference
March 13, 2013, 9:00 AM to 10:30 AM

1) Opening (Andrew)

A. Roll Call and Agenda

<u>TOPIC</u>	<u>LEAD</u>	<u>ROLL CALL</u>																																								
Welcome	All	<table border="1"> <thead> <tr> <th>Voting Members</th> <th>Present?</th> </tr> </thead> <tbody> <tr> <td>Chancellor UCSD: Dr. John Orcutt</td> <td>yes / no</td> </tr> <tr> <td>Director IGPP: Dr. Guy Masters</td> <td>yes / no</td> </tr> <tr> <td>Director CSRC: Dr. Yehuda Bock</td> <td>yes / no</td> </tr> <tr> <td>Chairperson: Art Andrew</td> <td>yes / no</td> </tr> <tr> <td>Vice-Chairperson: Dan Gilleland</td> <td>yes / no</td> </tr> <tr> <td>Secretary: Rich Maher</td> <td>yes / no</td> </tr> <tr> <td>Treasurer: Bill Hofferber</td> <td>yes / no</td> </tr> <tr> <td>Member: Armand Marois</td> <td>yes / no</td> </tr> <tr> <td>Member: Brian Wiseman</td> <td>yes / no</td> </tr> <tr> <td>Member: <i>VACANT</i></td> <td>yes / no</td> </tr> <tr> <td>Member: Larry Gill</td> <td>yes / no</td> </tr> <tr> <td>Member: Dave Olander</td> <td>yes / no</td> </tr> <tr> <td>Past Chairperson: Dick Davis</td> <td>yes / no</td> </tr> <tr> <td>Quorum? (6 out of 12)</td> <td>yes / no</td> </tr> <tr> <td>Non-Voting Member</td> <td></td> </tr> <tr> <td>NGS State Advisor: Marti Ikehara</td> <td>yes / no</td> </tr> <tr> <td>Associates</td> <td></td> </tr> <tr> <td>Coordinator: Maria Turingan</td> <td>yes / no</td> </tr> <tr> <td>Executive Manager: John Canas</td> <td>yes / no</td> </tr> </tbody> </table>	Voting Members	Present?	Chancellor UCSD: Dr. John Orcutt	yes / no	Director IGPP: Dr. Guy Masters	yes / no	Director CSRC: Dr. Yehuda Bock	yes / no	Chairperson: Art Andrew	yes / no	Vice-Chairperson: Dan Gilleland	yes / no	Secretary: Rich Maher	yes / no	Treasurer: Bill Hofferber	yes / no	Member: Armand Marois	yes / no	Member: Brian Wiseman	yes / no	Member: <i>VACANT</i>	yes / no	Member: Larry Gill	yes / no	Member: Dave Olander	yes / no	Past Chairperson: Dick Davis	yes / no	Quorum? (6 out of 12)	yes / no	Non-Voting Member		NGS State Advisor: Marti Ikehara	yes / no	Associates		Coordinator: Maria Turingan	yes / no	Executive Manager: John Canas	yes / no
Voting Members	Present?																																									
Chancellor UCSD: Dr. John Orcutt	yes / no																																									
Director IGPP: Dr. Guy Masters	yes / no																																									
Director CSRC: Dr. Yehuda Bock	yes / no																																									
Chairperson: Art Andrew	yes / no																																									
Vice-Chairperson: Dan Gilleland	yes / no																																									
Secretary: Rich Maher	yes / no																																									
Treasurer: Bill Hofferber	yes / no																																									
Member: Armand Marois	yes / no																																									
Member: Brian Wiseman	yes / no																																									
Member: <i>VACANT</i>	yes / no																																									
Member: Larry Gill	yes / no																																									
Member: Dave Olander	yes / no																																									
Past Chairperson: Dick Davis	yes / no																																									
Quorum? (6 out of 12)	yes / no																																									
Non-Voting Member																																										
NGS State Advisor: Marti Ikehara	yes / no																																									
Associates																																										
Coordinator: Maria Turingan	yes / no																																									
Executive Manager: John Canas	yes / no																																									
<ul style="list-style-type: none"> ● Roll Call ● Review Agenda ● Approve February 13, 2013 EC Meeting Minutes 																																										
Directors Report	Bock																																									
<ul style="list-style-type: none"> ● CRTN Update 																																										
Financial Report	Turingan																																									
<ul style="list-style-type: none"> ● Current Report ● CRTN Consortium Status ● Bylaws Revision Subcommittee - Update 																																										
Executive Manager's Report	Canas																																									
<ul style="list-style-type: none"> ● Update 																																										
EC / CC Meetings	Andrew																																									
<ul style="list-style-type: none"> ● Schedule April EC Meeting ● CLSA Reno Conference - March 24-27 ● Geospatial Symposium - April 4 in Riverside ● CalGIS Conference - April 15-17 in Long Beach ● NGS Ht Mod Partner Meeting - April 30 - May 1 in Kentucky ● CSRC CC Meeting - May 16th in La Jolla ● NGS RT GNSS Network Symposium - May 29-30 in Tennessee 																																										
Additional Items																																										
<ul style="list-style-type: none"> ● NGS Report ● CA GIS - Geodetic Control Working Group ● Caltrans Contract ● EWS Sub-Committee 	<p>Ikehara</p> <p>Ikehara</p> <p>Olander/Canas</p> <p>Gill</p>																																									

B. Approval of Previous EC Meeting Minutes: The February 2013 notes will be approved by email, because the quorum was not met.

2) Director's Report (Bock)

C. CRTN Update:

- NTRIP Accounts: Currently, there are 200 separate accounts requested by 157 organizations/groups. The organizations represent various agencies from city agencies to GPS vendors to private surveyors from all over California and other states. New users heard about CRTN from the seminars or by word of mouth. CRTN

metrics are posted online through January 2013 and usage is trending upward. Each valid connection is recorded in the metrics.

- Usage in Northern California: Periodically, Yehuda checks usage/activity, and in general, there is more activity in southern California. Marti Ikehara thinks that in northern California, stations went online later. Surveyors had to subscribe to a service contract and still utilize the service. Dave Olander added that certain areas may not be as dense as in the populated areas in the south. Currently, in the Bay Area, many stations have come online and area is now well covered.
- New sites: For CVSRN sites, Yehuda calculated provisional coordinates and these sites have been added. Seven PBO stations have been added mostly along the southern coast around San Onofre (available through NTRIP; announcement forthcoming). Dave Olander had used these PBO stations for a survey and for status work; now these sites have been upgraded to real-time. There are 176 stations in the north and 163 stations in the south.
- Topcon List Troubleshooting and Quality Control: Yehuda and Art are troubleshooting problems with OC sites from the Topcon list. CSRC is getting the data, but the sites are not streaming through NTRIP. Topcon sites are routed differently and may not be transmitting properly; the transmission problem may be causing the red status for these sites. Yehuda received quality control information from Rich Maher, which was very helpful.
- Earthquake Early Warning (EEW): Regarding the California EEW system, the EC subcommittee drafted a letter from the EC Chairman to the SIO Director. The letter requested SIO support for the inclusion of GPS technology in EEW system legislation and to help build collaboration with USGS, Caltech, UC Berkeley, and California politicians. Art sent the letter on 02/28- no response thus far. Yehuda had a meeting with SIO Government Relations, but it has been postponed. Next week at Caltech, Yehuda will be meeting the early warning system group and giving a seminar about SOPAC's EEW research.
- Uncertainties and Published Epoch Tables: For ne stations, standard deviations for coordinates are not provided, because they are provisional coordinates. Uncertainties come from the published epoch tables and are the only definitive coordinates, which is why the epoch needs to be updated.
- CRTN Map: The gray symbols represent the proposed backbone stations; however, the stations are always changing and should be removed. The gray symbols can be turned off by the user. Yehuda will remove the gray symbols from the default view.
- Northern California Sites: Caltran's MULN site is currently down due to vandalism. Currently, coverage is good in the Bay Area and in the north west part of the state. CRTN Consortium members from northern California regularly use stations. The northern Bay Area in Solano County (Vacaville area, north of San Pablo Bay) is not covered. In northern California, we are dependent on BARD ([Station Tables for the BARD Network](#)). In the past year, real-times stations have been added due to the BARD network expansion, with many sites upgraded to real-time as part of the early warning research. USGS also upgraded sites and added new ones. Marti will follow-up with a BARD postdoc regarding access to more stations. Dave noticed that the monumentation of one BARD sites ([UCD1](#)) is non-standard; the station was installed in the mid 90's as a rod clamped to the parapet wall on the UC Davis Geology building.

3) Financial Report (Turingan)

- A. **CRTN Budget through February 28, 2013**: Revenue sources include the City of Los Angeles, Riverside County Flood, San Diego County, Riverside County Transportation, the Santa Clara Valley Water District, contributing members, donations, and CLSA workshop registration fees for a total budget of \$58.7K (\$82K minus \$23K in indirect costs). Expenses from July 2012 to February 2013 totaled \$36.9K. February expenses totaling \$17.6K covered costs for salaries (\$4.7K), the Executive Manager (\$5.7K), supplies and other expenses (\$0.7K for telecommunication charges, software, and supplies), and equipment (\$6.5K for hard disk storage). We have a remaining balance of \$21.8K.
- B. **CRTN Consortium Status**: Kimberly Holtz's added the CRTN membership to Long Beach Gas & Oil's budget and they plan to join in July. Orange County will be requesting membership cost through their Board of Supervisors.
- C. **Bylaw Revision Subcommittee**: The subcommittee is in the process of finalizing the recommendations to the EC and plans to send the approved version to the Council in time for a vote at the Coordinating Council Meeting in May.

4) Executive Manager's Report (Canas)

- A. **Annual CEAC Survey and Policy Committee Meeting**: John attended the meeting in Pasadena and presented a CSRC update. He informed the members that CSRC would be presenting at the CLSA Conference in Reno and urged them to attend.
- B. **March League Meeting**: John attend the meeting and informed the members of the CSRC Presentation in Reno and of the Geospatial Symposium in Riverside April 4th. He reminded the members of the CSRC Coordinating Council Meeting at SIO on May 16th. We will also hold a CRTN Consortium meeting the morning of the 16th, prior to the Council Meeting.
- C. **California Geodetic Working Group Meeting**: He participated in the meeting. Scott Martin agreed to Chair the meeting after Marti retires.
- D. **NGS Meetings**: John emailed information regarding the NGS Partners meeting April 30th and May 1st to the Executive Committee. He stated that it was important for CSRC to participate in the NGS Height modernization meeting to exchange information, facilitate partnerships, and keep the lines of Communications open. John volunteered to attend and placed a ballpark figure of \$2.5K for travel expenses. The Executive Committee agreed that CSRC attendance was important, approved the travel, and thanked John for volunteering.
- E. **Marti's Retirement**: John, Art, and Yehuda thanked Marti for her service on the CSRC Executive Committee and her tenure as California Geodetic Advisor. The EC wished well on her retirement. Marti will be retiring March 29th and her retirement party is planned for April 4th in Sacramento.

5) EC/CC Meetings

- A. **Next EC Teleconference**: April 10 (Wednesday) at 9:00 AM.
- B. **CLSA Reno Conference**: March 24-27 2013 (Reno); Dave Olander and Rich Maher will adapt CRTN Workshop presentations and present for 1.5hr (March 25th 8:00 AM).
- C. **Geospatial Symposium**: April 4th in Riverside; Art and Rich present on behalf of CSRC.
- D. **CAL GIS**: Pathways to CA's Future April 15-17, 2013 Art, on behalf of the CSRC, will be participating in the Geodetic Control presentation. Bruce Joffe will also be participating.

- E. NGS Ht Mod Partner Meeting:** April 30 - May 1 in Kentucky
- F. CSRC CC and CRTN Consortium Meetings:** May 16th at Scripps.
- G. [NGS RT Symposium](#):** May 29-30 Memphis, TN; update- Joe Evjen sent an email on 04/04 stating that the symposium has been postponed due to the sequestration and budget federal budget uncertainties.

6) Additional Items

- A. NGS Report:** no updates.
- B. CA GIS Geodetic Control Working Group:** As reported by John, Scott Martin will serve as the Chairperson after Marti retires.
- C. Caltrans Contract:** Scott Martin is working on moving the contract forward and plans to have an update by the May 16th meeting.
- D. EEW System Subcommittee:** As reported earlier, the EEW letter was emailed to the SIO Interim Director.

The meeting adjourned at approximately 10:30 AM.

Minutes Submitted by Maria Turingan, CSRC Coordinator.