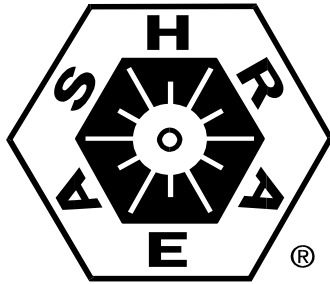


ASHRAE Region X Newsletter



Where the Desert Meets the Pacific Ocean

AUGUST 2007

WEBSITE: WWW.ASHRAEX.ORG

Regional Chair's Message

Verle Williams, P.E., CEM
Region X DRC

I must admit, it is impossible for me to realize just how fast time flies. I do understand what they mean when they say that time travels much faster as you get older, because time just zips by me right now. What will happen when I get old? Oh well, age is only relative, isn't it? In any case, it seems unreal that I am actually on the final year of my term as your Director and Regional Chair. It has been an interesting experience, especially when I plug it into a hectic schedule of events in our personal life. I thought by now, we would be on a calm schedule of having great times doing whatever we wanted to do. Well, I guess we are doing a lot of what we want to do but it is far from calm. This job could be a full time job, since there are so many wonderful opportunities to get involved with fantastic people and go to lots of new areas to work out whatever details need to be completed. Region X is full of great people and opportunities galore. So many opportunities that it is difficult to decide which one to jump on next.

ASHRAE is a fulfilling organization. You cannot help but get more out of it than you put into it, but you have to invest something to get any return. The more time you invest, the easier it is to see the great benefits of your investments. Now, is that a sales pitch or not? Well, it is intended to be a true, from the heart, statement. If you are not getting anything out of ASHRAE, just try getting involved with a committee in your chapter and see what happens. If you like to lead the pack, try volunteering to head up an event and see what comes from that experience. I assure you, you will not be disappointed. In addition, I can assure you that your board of governors

will be very pleased to see you come up to the table with a jubilant willingness to help. Be careful, because you may find that you have found a new niche in your life by becoming a member of that board, which will then lead you to greater things than you ever imagined.

I had the privilege of attending the Long Beach Annual Meeting, where Region X's past DRC and long time resident was installed as the new and youngest President of the Society. Not only that, but he is also the first President to be installed at a meeting hosted by his home chapter; which, in this case, is the Orange Empire Chapter. That is a great tribute to that Chapter and to Region X as one of the largest regions on the Society.

Now, where are we going this year? Well, your officers have great plans for the year. Each RVC has committed to make this an even better year than last year, which is saying a lot. Each is doing a great job, for which I am very pleased and thankful.

Region X had the best membership record in the Society, by keeping the delinquent membership down and maximizing the membership renewals. Art has worked hard at this, especially considering that he has worked through a job change recently. Thanks, Art Andres, for a job well done, in spite of many challenges.

Region X also had the only new Student Chapter started during the year, which is at Arizona State University. It looks like there may be a new chapter started at the University of Arizona this year, so that will be a winner for Clay and his team of Student Affairs people. Thanks, Clay, for remembering your youth and being so willing to reach out to the students with the benefits of ASHRAE and this industry.

Central Arizona • Golden Gate • Hawaii • Northern Nevada • Orange Empire • Sacramento Valley • San Diego
San Jose • San Joaquin • Sierra Delta • Southern Nevada • Southern California • Tri-County • Tucson

Mike Burgess came out on top of the society in the Research Promotion area, thanks to a lot of hard work by many RP chairs, with special recognition to Joseph Ting, RP chair of the Hawaii Chapter, with their Technical Conference and Trade Show held in April. As I understand it, they were less than \$1000 below Central Oklahoma, the chapter contributing the most to RP. Great job, Joseph, and the rest of the team too. Thanks to you, Mike, for all the energy you put into that job and the great results you've achieved.

Rick Des Lauriers jumped into the CTTC RVC's position with both legs running fast. He may not have received as many technical award applications as hoped, but he's on target for this year. Do not let him down; because this is a great opportunity for you to let your light shine by submitting that award worthy project on which you played a significant role. It really is not that hard to complete the required paper work, if you just sit down and do it. He will even help you do it, if you "ask him nicely"! Rick has also helped many of the chapters with the Distinguished Lecturer assignments and in setting up their programs for the year. Thanks, Rick, for a great job; and for smiling all the time you are doing it.

Dean Borges is doing a yeoman's job with the Nominating Member responsibilities. Since they are all so secret, we do not know what is going on until the announcements are made; however, I feel very confident that his team has a group of worthy candidates to submit to Society for upcoming positions in the Region and in the Society. Dean has been a big help to me as I faced different issues, since he is an old hat at this (even though he is such a young person), because he previously served as our DRC. Thanks, Dean.

We did lose our Historian. Pat Lanphere's eyesight is failing him and he decided to reduce the eyestrain by dropping out of the Historian's role. He was on a good run before the problem peaked for him, so we were sorry to see him have to drop out. Let us wish him well as he deals with this challenge.

Jack Zarour has graciously agreed to be the Alternate DRC and, in addition, has accepted the role of Regional Treasurer, replacing Lester Nakata, who passed away while in route from the January Society meeting in Dallas back to Honolulu. He had occupied that position very quietly (if you knew Lester, you understand what I mean by "quietly") for over 10 years. What a tenure that was. Anyway, Jack is diligently working to get the Regional books in order and get all accounts transferred from the Bank of Hawaii to the Bank of America, which is closer for him. I am looking forward to working closer with

Jack this year. Thank you, Jack, for agreeing to accept those challenges. I know you will do a superior job!

Our regional website has not lived up to our expectations, for many reasons. In fact, Society's website has also had many troubles this past year, as they upgraded to the new software system. Devin Abellon has worked hard to get ours cleaned up and is far from satisfied with the current condition. I have confidence that he will succeed in making it happen before our September meetings start, if not before. Thanks for all of your hard work, Devin. It takes a special touch and I am counting on you to have just what it takes to make it happen. I know you want to succeed; and we want you to as well.

Cindy Callaway has edited our Region X Newsletter and has had fun doing it. We really appreciate her hard work and the fact that she just keeps bugging us until we get our articles into her for printing. Thanks, Cindy.

You can see that Region X really shined this year. We have left a big set of footprints to fill this next year. BUT, WE CAN DO IT – WITH YOUR HELP. Without you, there is no need for any of this; and, without you, none of this would have been possible.

This year, we want each chapter to reach a peak in every area! Now, how is that for a goal? Really, I want to see each chapter board of governors happy they are in the role of leadership of their chapter. I want our officer team to help in any way possible to see that become, or stay, a reality. Life as an ASHRAE leader can be fun, so let us see that it is fun for you leaders too. You know what? I was just thinking that it has been 32 years since I became the San Diego Chapter President, and 45 years since I joined the Portland, Oregon chapter, as a young sales engineer for a controls company. I truly enjoyed my time as Chapter President. I know you chapter Presidents can enjoy your term also.

As you review your chapter membership, please give some thought to upgrading your membership grades, where applicable, and identify potential award winners who need to be recognized. Do not forget to look for those who may be good candidates for Fellow. As you consider projects in your area, think of the ones in operation for a year that you believe to be award worthy and see if you cannot get someone to submit an application for a Technology Award. Each chapter has at least 2 potential Golden Circle Investors for RP, which is \$10,000 a year. Give Mike a call and let him help you follow up with them. I would really like to see at least 2 more GC investors in Region X this year. (Joe Wavra, who turns "trash to cash" in San Diego, is leading the

pack there for the whole region, for which we all are very thankful.) Follow up on your members to make sure they continue their paid up membership.

Best wishes to each of you as you help your chapter be a leader in your community and our Industry. May you reap many huge returns from all of your investment – whether it is time or money or both you are investing. I look forward to seeing many of you this year as I attend your chapter meeting.

PLEASE, help The American Society of Heating, Refrigerating and Air-Conditioning Engineers advance technology to serve humanity and promote a sustainable world. You will be glad you did. Our grandchildren will be glad also.

Go get em!

2008 Region X CRC Planning Underway

Terry Erickson, 2008 CRC Co-Chair
Mark Bender, P.E., 2008 CRC Co-Chair
Devin Abellon, P.E., 2008 CRC Co-Chair

The San Diego Chapter CRC Committee is hard at work planning for next year's upcoming Chapters Regional Conference, to be held May 7-10, 2008 at the recently remodeled Westin Horton Plaza Hotel in downtown San Diego. We are committed to putting together a conference that is educational, informative, productive, and enjoyable. We look forward to meeting with each Chapter's delegates and encourage all committee chairs to attend. This will be a wonderful opportunity to learn how to get the most out of your efforts as ASHRAE volunteers, to gain valuable insights from other Chapters in the Region, and to have fun in "America's Finest City!"

We are finalizing the conference schedule to ensure that attendees will have the opportunity to attend all of business meetings and functions, and take part in most of the workshops. Additionally, attendees will have time to enjoy San Diego's breathtaking sandy beaches, beautiful parks, renowned family attractions, sophisticated and eclectic dining, rich arts and culture, a dynamic nightlife and fantastic shopping, both north and south of the border.

We have been able to secure a limited number of tee times at the world-famous Torrey Pines Golf Course,

home of the 2008 US Open. Imagine sitting at home, watching Tiger or Phil struggle on the very same holes that you conquered just weeks earlier. The course will be in pristine condition for this opportunity of a lifetime!

We have also started planning potential side excursions for local attractions such as Sea World, the San Diego Zoo, the USS Midway, Seaport Village, Historic Balboa Park, as well as harbor cruises, local winery tours, a "South of the Border" Shopping Excursion, and trips to one of the many nearby casinos. If we have forgotten anything, please drop us a line with your suggestions and ideas.

The San Diego Chapter is excited to host next year's upcoming CRC! We welcome all ASHRAE members, to get a look behind the scenes of what it takes to run a local Chapter, and to enjoy the sights, tastes, and sounds of beautiful San Diego.

MAY 7-10, 2008.

Save the Date. See you there!

Student Activities Clay Lampman Student Activities RVC

CHALLENGE The challenge of the Chapter's student activities is plan for all of the upcoming 2007-2008 chapter year events. This means recruiting chairs and budget expenses for these activities. The activities should further encourage and promote student membership, develop and maintain student branches and promote careers in the HVAC industry. The resource for ideas and programs are through the Regional and Societies news.

2007-2008 Chapter Activities During the summer months, plan to meet with your chapter President and Board to discuss the goals of the upcoming year's student activities. Plan to schedule at least one student night, chapter members involve in judging science fairs, supporting student branches activities, promoting scholarship fund raising and E-Week activities. Plan to complete your Management by Objectives form (sample of MOB form is located in Student Activities handbook). Email me your MOB so I can review your goals at cala_eng@earthlink.net.

CHAPTER SCHOLARSHIPS All chapters should have a program granting student scholarships. Scholarships show that our industry is willing to step up to the plate to fund student education. This could be

funded by raffles at the chapter meeting, golf tournaments and donations. The dollar value of the scholarship is important, but equally important is the recognition of the student's academic accomplishments. In some cases where there is no strong HVAC academic program, but a mechanical engineer criterion, the fact that ASHRAE is giving scholarships could be an indication that this would be a viable profession to enter after college/university.

STUDENT BRANCH Over the summer, most student branches becomes inactive. But come fall with the students starting back to class, the activities of the branch should start. It always seems to get started slowly. This is the reason that a liaison between the chapter and the branch should be recruited. The liaison can provide programming to the branch to see that even slow start, the activities can progress very fast.

NEW STUDENT BRANCH Thanks for the effort of the Central Arizona Chapter, a new student branch is starting at Arizona State University. In the mill are branches at University of Arizona at Tucson (Tucson Chapter) and Cypress College (Orange Empire). If think there is a potential of a branch at a local college or university, contact me for assistance at cala_eng@earthlink.net.

E-WEEK Plan to recruit a general chair early for National Engineer's Week, Feb 17-23, 2008 early. This is a great opportunity to introduce K-12 students to learn about science, engineering and experience real life applications along the way. To see what activities that a chapter has to do for E-Week, look at the web site for Southern California Chapter at <http://ashrae-socal.org> under Activities/ Student

NEW DOWNLOADS Power Point presentation for student recruitment and Career in HVAC&R are available on the Student Zone under Student Activities Committee section under 2007 Spring CRC.

CRC The CRC meeting was held in Palm Springs on May 4-5, 2007. The Student Activities work shop was interactive with lots of interchanging of ideas. Power Point presentation with loads of program ideas is available from the Student Zone under Student Activities Committee section, 2007 Spring CRC Planning is under way for fun in the sun in San Diego, May 8th to 10th, 2008. Mark it on your calendar.

CHAPTER AWARDS At the 2007 CRC awards were given out for 2005-2006 Chapter student activities. Hawaii Chapter took home the award for the most K-12 activities, student growth and students attending chapter meetings. Northern Nevada took the most invested per students. Southern California took the award for the most

number of scholarships given. Points for these awards were taken for the 2005-2006 PAOE points report.

STUDENT ACTIVITIES ACHIVEMENT AWARD

James Toda of the Tri-Counties chapter was awarded this achievement award over other regional nominations. Presentation was made at the Plenary Section at the Long Beach Summer Meeting.

STUDENT ZONE Visit

<http://www.ashrae.org/template/PDFDetail/assetid/48593> for the latest edition of the ASHRAE Student Activities Newsletter. This newsletter contains important dates. This included the Winter Meeting, January 19-23, 2008, information for students, new resources in Student Activities. YEA Connection information, and highlights from new student branches is also included. Do you think your Student Branch is doing something that would be of interest to ASHRAE Student Activities Constituents? Submit a short write up plus photos to Tarra Holmen, THolman@ashrae.org.

WINTER, NEW YORK Its may seem to be a long way off, but consider in your chapter's 2007-2008 budget, funds to send two or more students from your sponsored student branch to the Winter Meeting in New York, January 19-23, 2008. On January 20, 2008 there will be a special student breakfast where the 2006-2007 design awards are presented. Panel career discussions and tour of a local building plus many other events planned. An added bonus of attending the winter meeting is the AHR EXPO which will give you the opportunity to learn about new products and technology. I am looking for more Region X students to attend. We had only three students attend the student breakfast in Chicago.

2008 STUDENT DESIGN COMPETITION. The 2007 competition is completed with judging at the Long Beach Summer Meeting. The awards will be given out at the Winter Meeting. Students of your sponsoring branch need to be encouraged to compete. Requirements for the 2008 competition will be posted on the Student Zone around December. Congratulation goes to Cal Poly, Pomona as they represented Region X in the 2007 competition.

STUDENT ACTIVITIES SUB COMMENTTEE

Adam Loeffler, ME student at Cal Poly, San Luis Obispo, was a consultant to the committee. Adam provided a students' view on various Societies Student Activities program. He represented student branches through out our region. He current is serving as Vice President of the Student Branch at Cal Poly.

Cal Poly Program. I am continuously asked "is there is a college or university that has a HVAC&R

Concentration". Cal Poly at San Luis Obispo has 21 units in the mechanical engineering department that will prepare students for careers in the heating, ventilating, air-conditioning and refrigeration (HVAC&R) industry. There is a focus on the design of mechanical systems for commercial and industrial buildings. The courses that are included in the concentration are fundamentals of HVAC systems; HVAC air and water distribution system; design of refrigeration principles and design; building heating and cooling loads; HVAC System Design; Senior Project Laboratory. For additional information contact Dr Jesse Maddren at jmaddren@calpoly.edu.

BUILDING SCIENCE FOCUS In the mill is a building science focus being formulated at University of Arizona, Aerospace and Mechanical Engineering Department. This will include HVAC and other mechanical systems within the building. For an update on the progress contact William R. Acorn at bill@acs-eng.com.

Research Promotion

Michael T. Burgess, P.E.

Resource RVC

Congratulations to all Chapters and Chapter Research Promotion Chairs! We have had an exceptional, record-breaking year! Our Region is the only Region in Society that has, not only achieved our Annual Goal for Research Promotion, but has also achieved the High Five and Challenge Goals! We raised \$171,586! This is the most ever donated by Region X. On a Society-wide basis, the Society Goal was missed by only 0.5% or \$9,319.

We saw Five Chapters exceeding their Chapter goal this year. A great big hearty and sincere congratulations goes out to the HAWAII Chapter and Joseph Ting for contributing 37% of the Region's total collections. Hawaii is the first winner of the Region X Research Promotion APEX award. This is an annual perpetual award. "APEX" stands for **A**ction: The Chapter will have taken action to produce results and promote Research; **P**erformance: The Chapter will have outperformed all other Chapters in Region X; **E**Xcellence: The Chapter will have proven excellence in the execution of the Chapter RP Plan.

Hawaii exemplified the results of hard work and dedication to promoting ASHRAE Research through their efforts. The Tabletop and Technical Seminar truly touched many people and the consequence of it was a successful campaign.

With a part of this effort, the Hawaii Chapter has set up the Lester Nakata Memorial Fund in the ASHRAE Foundation, specifically the ASHRAE Learning Institute, to subsidize refrigeration education. Every year a donation will be made in Lester Nakata's name to the ALI to fund courses in refrigeration, Lester's chosen career path. As many of you know, Lester passed away on his way home from the Dallas Winter Meeting. He had been Region X Treasurer for many years and put many more years into ASHRAE and its mission.

Now for a rundown on the results of the 2006-2007 RP campaign: The top three Chapters for total money collected are Hawaii (\$63,062), San Diego (\$28,555) and Southern Nevada (\$14,788). In a close fourth-place is Central Arizona at \$14,400. The top three Chapters for total money collected per assigned member is as follows: #1 is Hawaii (\$279); #2 is San Diego (\$79.54) and #3 is Southern Nevada at (\$70.76).

There are however some smaller Chapters with excellent results. Tucson was at 205% of goal with \$3,200 collected and Sierra Delta's effort produced a goal breaking 105% with \$3,800 collected. All in all, our entire Region really stepped it up this year. HVAC Exchange, Inc. (Joe Wavre) of San Diego renewed his Golden Circle status for this past year. That makes two years in a row that he has been a Golden Circle Investor. Thank you Joe!

ANNOUNCEMENT: We have a second Golden Circle Investor for Region X. The SMACNA Bay Area Chapter has already submitted its \$10,000 to achieve Golden Circle status for this year. Welcome to the Bay Area Chapter, and thank you for your generous contribution. We look forward to developing a closer relationship between SMACNA and ASHRAE.

Our annual Research Promotion Training Workshop is on August 18, 2007 in Las Vegas. If you do not have the information on the hotel or agenda please contact me and I will get it out to you.

If any reader has any questions about their Chapters' efforts at Research Promotion, please give me call or send me an e-mail.

Nominating Dean Borges Nominating Member

Our Mission Statement:

Our goal as the Region X nominating team is to select the most qualified ASHRAE members for various positions in accordance with ASHRAE guidelines. Our DRC, Verle Williams, encourages all Chapters to provide nominations for various ASHRAE awards.

ASHRAE Awards:

ASHRAE awards such as the ASHRAE Hall of Fame, the Paul Anderson award, and the ALCO medal for distinguished public service, Distinguished Service, and Chapter Service Awards. A complete list of various ASHRAE awards is presented under appendix N of the "Manual for Chapter Operations" at ASHRAE website at www.ashrae.org.

How can you help?

The future operation of our region, as well as our society, depends upon the qualified individuals that we nominate. Help us to become stronger as a worldwide organization. ASHRAE is a great organization and a global leader. Your nominations support ASHRAE vision for professional growth. It will also help us to recognize our members for their dedication and contribution to ASHRAE.

Upcoming CRC in San Diego, California:

Contact your Chapter's Delegate and Alternate if you know of a potential candidate that could serve ASHRAE beyond Chapter service. These potential candidates make these decisions to learn more about our industry, methods and means to solve the problems encountered with the HVAC &R systems. Great things happen to these individual i.e. Kent Peterson, P.E., President of ASHRAE, (from Orange Empire Chapter).

Now it is time to look at the issue of Bylaw changes of the Society. It was my great disappointment to learn the Board of Director's passed the Bylaw changes involving "Section 7.12 Removal." I will pursue a motion through the DRC at CRC as follows:

"Motion: That the Board of Directors reconsider their actions on the Society By-Laws and revert back to the original intent of Article VII Committees, Section 7.12 Removal, 'The Board of Directors may, by two-thirds

vote, remove a member of any committee **except Chapters Regional Committee or the Nominating Committee.**"

While the intent of this change was to permit the BOD to remove any member from a committee for unethical behavior, as written this intent may be lost in the future and the clause abused. The BOD should not interfere with any deliberations of the Nominating Committee, yet this change gives them some power over the NC or CRC Delegate or Alternate membership.

Chapter Technology Transfer Committee Rick Des Lauriers Region X Vice Chair

The Chapter Technology Transfer Committee (CTTC) is ending its third year since being established by the ASHRAE Board of Directors in June 2004. The CTTC is a General Standing Committee of the Society and operates under the Board of Directors and Members Council. This Committee continues the previous responsibilities and activities of three ASHRAE Standing Committees – Chapter Programs, TEGA, and Refrigeration. The CTT Committee serves to provide efficient and effective transfer of current and relevant information throughout the HVAC&R industry to/from the Chapters. Its main functions are to provide a conduit for communication between ASHRAE technical committees (e.g. TCs, TGs, and SPCs) and ASHRAE Chapters and Member Council, and to develop and maintain high quality and readily available tools to enable Chapters to offer attractive, industry-related information and programs to all segments within the HVAC&R industry. The CTT Committee reports to Members Council.

The 2007-2008 Presidential Award of Excellence (PAOE) criteria for the Chapter Technology Transfer Committee is now available on the Society web site at http://www.ashrae.org/doclib/20070404_CTTC_PAOE200708.doc. Please take the time to review the CTTC criteria including the deadlines identified for some of the particular activities. A Chapter Sustainability Award is available for each Chapter that obtains at least 200 points from items listed under Sustainable Activities. The Chapter with the highest PAOE Sustainability point total will receive a Region award.

The April 18, 2007 satellite broadcast and web cast, "Indoor Environmental Design: Practical Solutions to Everyday Problems" was very successful and was watched by an estimated 17,197 viewers. The broadcast DVD is now available for purchase by calling customer service at 1-800-527-4723 or via the ASHRAE Bookstore at www.ashrae.org/bookstore.

The next ASHRAE CTTC Satellite Broadcast is scheduled for April 16, 2008. CTTC has selected "Integrated Building Design" as the subject for the 2008 broadcast.

The recent CTTC Workshop held at the 2007 CRC in Palm Springs was poorly attended. If you were unable to attend the workshop and would like to get a copy of the materials (CTTC information packet and CD) that was handed out at the workshop, please e-mail your request to me at rick@rrcontrols.com.

Please remember to send me your monthly report on your Chapter's CTTC activities. Sustainability Activities and GAME Activities should be included in the report along with the feedback from you and your Chapter members as to the success or lack of success of your Chapter monthly programs. Also identify anyone you feel would make a good speaker for other Chapters in the Region.

The following are a few important deadlines for CTTC Activities that will be coming up soon:

- Completing MBO's and sending a copy to RVC by September 1, 2007
- Completing and publishing meeting schedule and speakers and sending copy to RVC by October 1, 2007
- Planning/goal setting session with RVC by October 1, 2007.
- Initial PAOE points reporting by November 1, 2007

Don't forget to visit the CTTC webpage. The CTTC webpage provides complete information regarding committee programs and activities. Find a Distinguished Lecturer, review criteria and deadlines for Technology Awards, or review the latest Government Activities update. Visit us at www.ashrae.org/cttc.

ASHRAE's Washington office has launched a new Government Affairs webpage at <http://www.ashrae.org/governmentaffairs>. The

new and improved web site includes letters, comments and testimony submitted to federal agencies and Congress, position statements, policy briefs, links to relevant federal agencies and organizations, and information on participation in Government affairs related activities, periodic Government affairs updates about pending regulations from federal agencies, activities of related organization and news from the ASHRAE Washington office.

I would like to thank all of the Chapter members that submitted a Regional Technology Award application. We had a total of eight technology award winners from four different Chapters in the Region. The Golden Gate Chapter led the Region with three First Place winners.

Golden Gate Chapter

1st Place Public Assembly – New
Live Oak Community Library, Santa Cruz, CA
Steve Guttman, P.E.

1st Place Residential – New
Curry Village in Yosemite National Park, Yosemite, CA
Steve Guttman, P.E.

1st Place Institutional Buildings – New
Lewis & Clark State Office Building
Peter Rumsey

Tri-County Chapter

1st Place Commercial Buildings – Existing
Wescorp Check Processing Center
Steve Johnson

1st Place Residential – Existing
SCE-CTAC Displacement Ventilation
Jim Toda

San Joaquin Chapter

1st Place Commercial Buildings – New
Kern Schools Feral Credit Union Administration Bldg.
Justin Fortmeyer
Steven Jones

2nd Place Institutional Buildings – New
Reagan Education Center
Gilbert Nye

Southern California Chapter

2nd Place Commercial Buildings – Existing
Staged Volume Single Zone Package Unit
Russell Lieu
Jim Toda

Membership Promotion

Arthur Andres
Membership RVC

Regional Historian

This position is currently open. Please forward nominees for Regional Historian to our nominating member Dean Borges.



ASHRAE REGION X 2007-08 REGION EXECUTIVE COMMITTEE

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CRC 2008
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