

ASHRAE Hawaii

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.



Membership Roster
Hawaii Chapter
2009 ~ 2010

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President's Message

Aloha ASHRAE Hawaii Members!

Please join me in thanking Brandon Maeda and Mofazzal Mir for producing this year's ASHRAE Hawaii member's directory. Also, please take a moment to recognize the financial support that our vendors have provided.

I hope this year's directory is as much of a valued resource for you as it is for me. I'm sure that Brandon's and Mofazzal's hard work will pay off by providing this service to our membership.

Best wishes to all and your families!

Albert Hahn, P.E.

ASHRAE Hawaii President 2009-2010

Officers, Board of Governors, Committee Chairs

Officers:

President: Albert Hahn, P.E.
President – Elect: Dicson Aggabao
Vice President: Michael Chang
Secretary: Barry Jim On, P.E.
Treasurer: Paul Fukunaga, P.E.

Governors

Past President: Joseph K. Ting, P.E.
Kenneth Richardson
Kevin Saito, P.E.
Paul Scott
William Lee, P.E.

Committee Chair

Attendance: Roland Suzuki
Chapter Programs: William Lee, P.E.
CRC Action: Albert Hahn, P.E.
CTTC: Joseph K. Ting, P.E.
H&A: Kenneth Richardson
Research Promotion: Paul Scott
Student Activities: Paul Fukunaga, P.E.

Member Promotion: Mofazzal Mir, P.E.
History Chair: Joseph K. Ting, P.E.
Refrigeration: Scott LaBeau
Technical Seminar: Albert Hahn, P.E.
Chapter Webmaster: Michael Chang
YEA: Alayna Shima

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Past Presidents

2008 ~ 2009	Joseph K. Ting, P.E.	1988 ~ 1989	Samuel T. Fujikawa
2007 ~ 2008	Samuel F. Gillie, P.E.	1987 ~ 1988	Kevin Y.F. Chong
2006 ~ 2007	Marites Calad	1986 ~ 1987	Richard A. Rauls, P.E.
2005 ~ 2006	Ross R. Tanaka, P.E.	1985 ~ 1986	Cedric D. O. Chong, P.E.
2004 ~ 2005	Victor L. Russell, P.E.	1984 ~ 1985	John L. Arizumi, P.E.
2003 ~ 2004	Michael A. Chong, P.E.	1983 ~ 1984	Franklin Y. S. Lum, P.E.
2002 ~ 2003	Kenneth J. Richardson	1982 ~ 1983	George B. Hamilton
2001 ~ 2002	David G. Waller, P.E.	1981 ~ 1982	Robert Seelman
2000 ~ 2001	Thomas W. Moody	1980 ~ 1981	Robert S. Hann
1999 ~ 2000	Rolf A. Klein	1979 ~ 1980	Boyd K. C. Chee, P.E.
1998 ~ 1999	Wesley T. Nakaguchi, P.E.	1978 ~ 1979	Giovanni Chung, P.E.
1997 ~ 1998	Steve Nakagawa, P.E.	1977 ~ 1978	Richard C. Dearing
1996 ~ 1997	Joel P. Yuen, P.E.	1976 ~ 1977	Lester Y. M. Sen, P.E.
1995 ~ 1996	Michael P. Capllonch, P.E.	1975 ~ 1976	John L. Gesser
1994 ~ 1995	Mark K. Suzuki	1974 ~ 1975	John L. Lindsay
1993 ~ 1994	Eric S. Nakagawa, P.E.	1973 ~ 1974	Nels Soderholm, Jr., P.E.
1992 ~ 1993	Robert L. Pascua	1972 ~ 1973	George Y. Motonaga, P.E.
1991 ~ 1992	Lester T Nakata	1971 ~ 1972	Karl A. Bowman
1990 ~ 1991	James A. Gough, P.E.	1970 ~ 1971	Richard R. Hughes, P.E.
1989 ~ 1990	Frederick H. Kohloss, P.E.	1969 ~ 1970	Robert E. Hamilton, P.E.

Member of the Year

2008 ~ 2009	Paul Fukunaga	1995 ~ 1996	Alan Lloyd
2007 ~ 2008	Min Zhong	1994 ~ 1995	Alex M. P. Tang
2006 ~ 2007	Joseph Ting	1993 ~ 1994	Lester T. Nakata
2004 ~ 2005	Ken Richardson	1992 ~ 1993	Maria Tome
2003 ~ 2004	Samuel T. Fujikawa	1991 ~ 1992	Boyd K.C. Chee
2002 ~ 2003	Samuel F. Gillie	1990 ~ 1991	John H. Gesser
2001 ~ 2002	Thomas D. Van Liew	1989 ~ 1990	Samuel T. Fujikawa
1999 ~ 2000	Alex M. P. Tang	1988 ~ 1989	Richard C. Dearing
1997 ~ 1998	Scott Inatsuka	1987 ~ 1988	Frederick H. Kohloss
1996 ~ 1997	Mark Suzuki		

Officer / BOG of the Year

2008 ~ 2009 Dicson Aggabao

Chapter Life / Fellow Members

Ayson, Edmund – Life Member

Cheski, Richard – Life Member

De Smet, Raymond – Life Member

Faus, Robert – Life Member

Funada, Lloyd – Life Member

Gesser, John – Life Member

Gough, James – Life Member

Hann, Robert – Life Member

Hayakawa, Kan-Ichi – Life Member

Ho, Robert – Life Member

Ikenaga, Herbert – Life Member

Knepper, Samuel – Life Member

Lashway, Donald – Life Member

Lloyd, Alan – Fellow Member

Lyau, Raymond – Life Member

Mita, Walter – Life Member

Miyashiro, Malcolm – Life Member

Motonaga, George – Life Member

Murakami, Archie – Life Member

Murayama, Randolph – Life Member

Nakagawa, Herman – Life Member

Olson, William – Life Member

Panalal, Harendra – Life Member

Popov, Theodore – Life Member

Rauls, Richard – Life Member

Saito, Elbert – Life Member

Spring, Everett – Life Member

Thom, Kenneth – Life Member

Waltz, Richard – Life Member

2009 ~ 2010 Meeting Schedule

September 10th

Main Program: Infectious Disease and Risk Management – Marlene Linders (Philders Group International Inc.)
Technical Session "Do & Don't": VFR Myths, Legends and Half-truths – Bobby Hahn (Mitsubishi Electric & Electronics USA)

October 8th

Main Program: Electrical Engineering for Dummies – Doug Buhr (Douglas Engineering)
Technical Session "Do & Don't": Boilers and Water Heating Systems – Paul Scott (Engineered Systems)

November 12th

Main Program: VFR Roundtable

- Bobby Hahn (Mitsubishi)
- Dale Young (Sanyo)
- Lawrence Ahn (LG-Carrier Hawaii)
- Marites Calad (Daikin-Norman S. Wright)
- Ryan Lee (Samsung-Air Treatment)

Technical Session "Do & Don't": None

December 8th

Main Program: Chapter 40th Anniversary Celebration at Outrigger Canoe Club

January 14th

Main Program: Energy Efficient Systems – Norman Asbjornson (AAON, Inc.)
Technical Session "Do & Don't": Digital Scroll Compressor Technology – Scott LeBeau (DMG Hawaii)

February 26th – Technical Seminar (Water Heating in the 21st Century)

- Wide World of Water Heating – Mark Hertel (Inter Island Solar Supply)
- Approaches to Water Storage Design – Jeff Henscheld (PVI Industries)
- Commercial Solar Heating 101 – Ron Richmond (Inter Island Solar Supply)
- High Performance Water Heaters – Mark Taylor (BWC)

- Now your Heating with Gas – Jeff Harris (Riverside Hydronics)
- Smart Instantaneous Water Heater Without Storage – Ed Haven (Clyde Equip Co. [AERCO])
- Modern Heat Pump Water Heating – George Wyer/Alan Lloyd (E-tech/Retired)
- Hawaii Energy Efficiency Programs – Michael Chang – Hawaii Energy (SAIC)

March 11th

Main Program: New Energy Code for Hawaii – Howard Wigg (DBEDT)
Technical Session "Do & Don't": Data Center Heat Trends and Best Practices – David Toralez (Emerson/Liebert)

April 15th

Main Program: HVAC Design for the Ginsburg Tower at Florida Hospital in Orlando – Christopher Montpas, Jason Li & Matthew Tio (UHM Engineering Students)
Technical Session "Do & Don't": HVAC, IAQ and UVC Source Control – Dr. Robert Sheir (Steril-Aire)

ASHRAE Hawaii Chapter

Member List

IS YOUR LISTING CORRECT?

Keep your data current. Visit www.ashrae.org. Enter your membership number and pin, Log-in, click on address and grade changes, then enter the correct data. Or email Mofazzal Mir at mmir@insynergyeng.com. It's that simple!

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Sword Team

The Sword Contracting, Inc., team is composed of engineering, construction and management professionals with demonstrated capabilities in many areas. We have been Icynene dealers for 7 years and have worked on projects in O'ahu, Kauai, Lana'i and Maui. We worked on the John Burns Medical School for the UH with Hawaiian Dredging and are on the Armstrong/A&B project "Kai Malu" on Maui. The Mees Observatory atop Halekala, and the Towne Group Good Home in Wailuku Maui which is one of the first LEED Certified homes in the State.

Our fields of experience and expertise include general contracting, mechanical contracting, site work, mechanical, civil and structural engineering, contracting and construction management. We have on staff a licensed civil and mechanical engineer, and a structural E.I. T. Our staff has a commitment to provide projects and solutions that meet the needs of clients. The following paragraphs briefly summarize the qualifications of key team members.

Michael Conway, PE, RME, BSME, LEED®AP, LEED H

Michael Conway is a principal of the firm and a registered mechanical engineer licensed in the State of Hawaii (License #3669). Mr. Conway has worked for the contracting firm of E.E. Black, Ltd., and Sword Contracting, Inc., the consulting firms of Ferris and Hamig, Ralph M. Parsons, as well as Amfac and A&B Properties. Additionally, Mr., Conway worked for several years with CH 2 M-Hill a firm with extensive experience in implementation of the SafeWater Drinking Act.

While with CH 2 M-Hill, Mr. Conway was involved with such projects as the American Samoa Quality Laboratory, Kaunakakai Waste Water Treatment Plant Expansion, Lahaina Wastewater Treatment Plant; Lahaina Waste Water Treatment Plant Solids Processing Facility, Upper Kula Water Treatment Plant Renovation, and the Paia Sewerage System Pump Station, Lahaina Odor Control Project, Kualapuu Water Transmission Line, Lanai WWTP Expansion and others. He handled inspection, design, planning, and managed a local branch office of a large international consulting firm.

He is a licensed civil and mechanical engineer and the RME of Sword Contracting, Inc. which holds an ABC General Contracting License with the addition of C-41 and C-48 specialties. Sword Contracting Inc, has completed such projects as the Lahaina Odor Control Project,

the Kualapuu Water Transmission Line, and the Lanai WWTP Expansion. Michael is also a trained installer of The Icynene Insulation System®.

Keli'i Conway E.I.T. , RME, BSCE

Keli'i has worked on various engineering and construction projects as the Four Seasons, Maalaea Kai Parking expansion, Piilani Gardens Condominium, Ferraro's, Café O'Lei and the Napili Kai Condominiums.

He a trained installer of The Icynene Insulation System® and has worked on such projects as the Lanai Laundry, Kihei Ice, Tedeschi Winery, Merriman Residence, Keawe Office Building, Gentile Residence, Maui Veterinary Clinic, and more.

We have on staff a total of four experience Icynene sprayers, installer assists and office staff personnel and offer a full spectrum of services such as CAD, field observations, testing, governmental applications, permit processing. We are capable of assisting those in the government , private and commercial arenas.

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Maui Kaanapali Villas	Lahaina, Maui
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Gentile Residence	Kula, Maui
Ferrari Residence	Sprecklesville, Maui
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Jackson Residence	Kailua, Oahu
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Icynene insulation and air barrier products can be sprayed into walls, ceilings, floors, crawlspaces, and attics to deliver superior insulating and airsealing results. Ideal for wood or steel framing, Icynene products adhere to a variety of substrates and in various conditions.

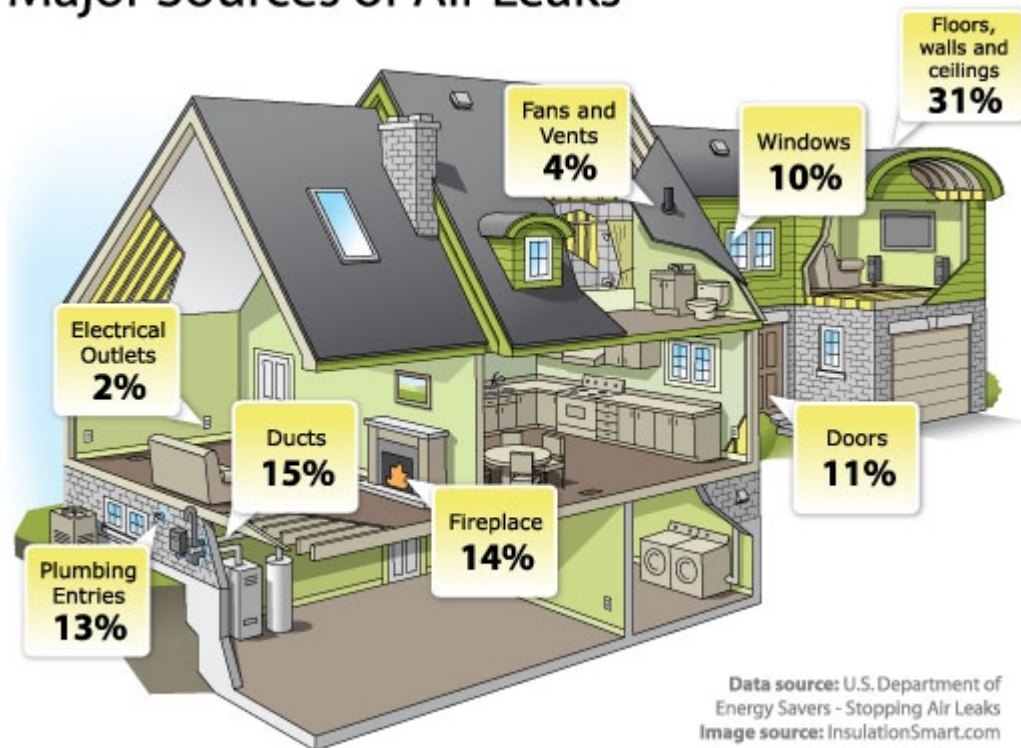


Icynene is installed in adherence with local building codes. Once applied, finished appearance may vary from photo shown.

Take Control of Air Movement

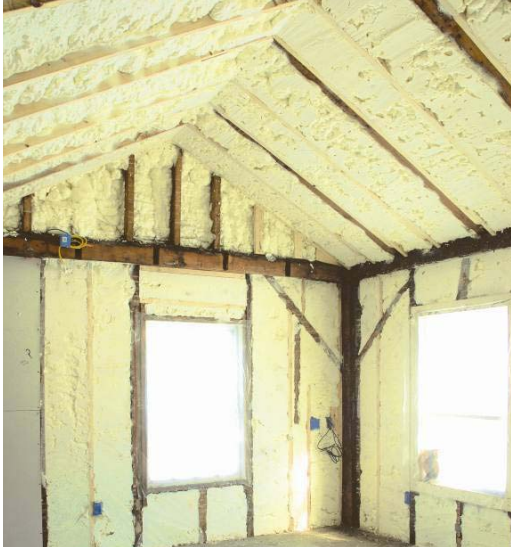
Air leakage can contribute to as much as 50% of a building's energy loss, according to the Department of Energy. And building science experts recognize that controlling air leakage, complemented by a reasonable R-value level, will have a greater impact on energy conservation than R-value alone. Icynene's Light Density and Medium Density insulation options are all classified as air barriers to help stop air leaks and achieve key green building goals such as saving energy, controlling airborne moisture, enhancing durability, and adding comfort.

Major Sources of Air Leaks




Moisture Management

Icynene insulation delivers advanced moisture management by forming an air seal to minimize air movement. By minimizing air transported moisture through the building envelope, Icynene helps to prevent condensation and the resulting potential for mold growth within walls and ceilings. Icynene Low Density Foams (LD-C-50™ and LD-R-50™) have an open-celled structure for superior breathability, allowing them to dry and remain unaffected by minor wetting so they can continue to operate at peak performance levels. This open-cell technology helps in the identification and diagnosis of leaks and in protecting roof decks from sustained wetting/conditions that can lead to rot. It is also helpful in drying moisture trapped in adjoining materials. Wood framing and fresh concrete, for example, can have vast amounts of moisture trapped in their pores. A “breathable” insulation such as LD-R-50™ or LD-C-50™ allows these materials to dry over time helping to minimize the potential for damage. For areas that require insulation with a lower vapor permeance, Icynene’s Medium Density products are available. These products are ideal for use in areas with higher levels of humidity, such as crawlspaces, or where a higher R-value per inch is required.



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Appendix 1: ASHRAE Hawaii Chapter - Information Questionnaires



2009-10 ASHRAE Hawaii Chapter (#108) - Chapter Information Questionnaires (CIQ Updated 3/5/10)

Meeting Location: Dave & Buster's, 1030 Auahi St, Honolulu HI 96814; Phone: (808)589-2215; Website: www.daveandbusters.com

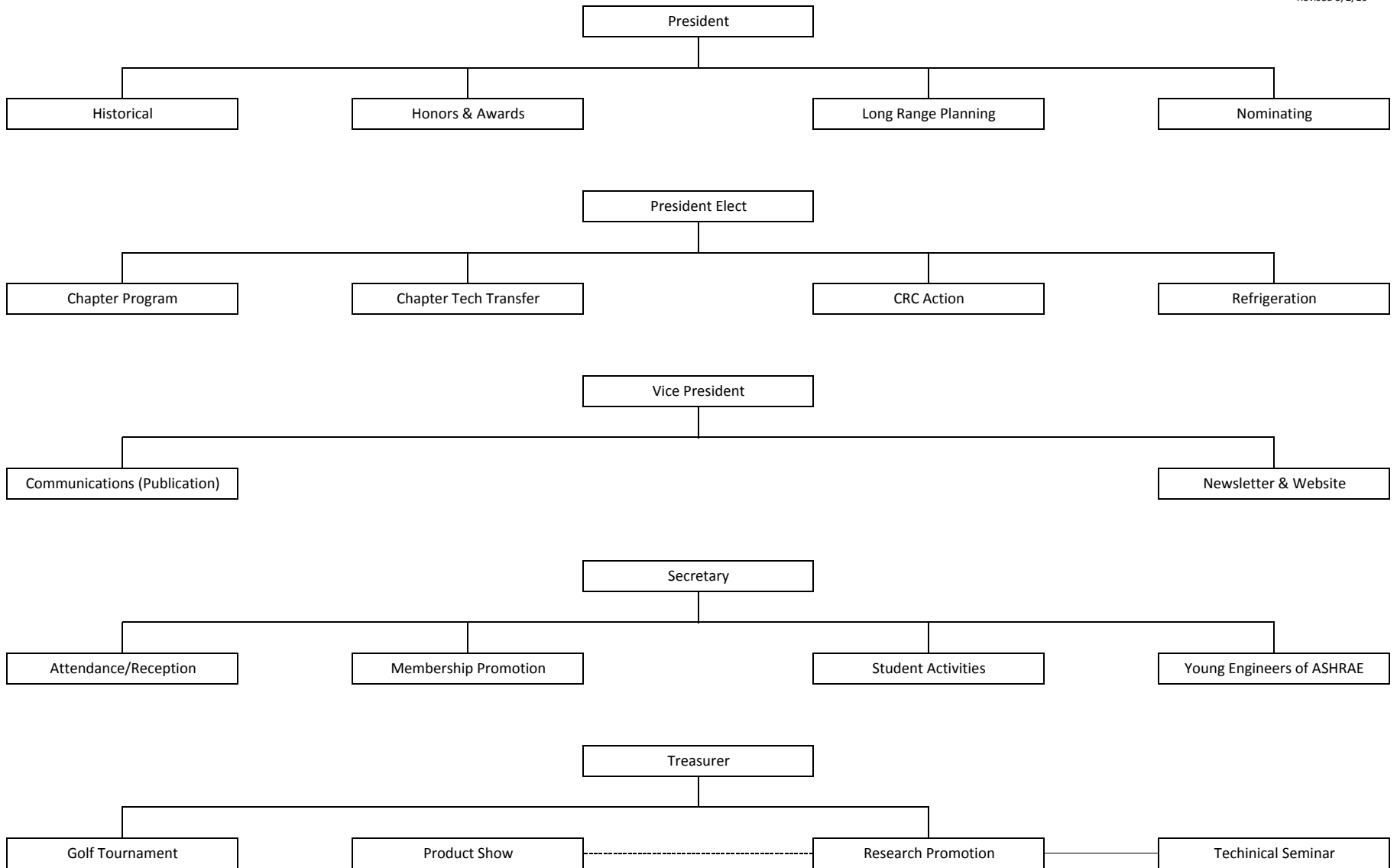
Meeting Dates: 9/10/09, 10/8/09, 11/12/09, 12/8/09, 1/14/10, 2/26/10 (TS - East West Center), 3/11/10, 4/15/10

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Full Name	Member ID	Position	Start Date	End Date	Company	Address	City, State Zip	Phone	Fax	Email
Roland Suzuki	8067054	Attendance/Reception Chairman	7/1/2009	6/30/2010	Heide & Cook Ltd	1714 Kananui St	Honolulu, HI 96819	(808)846-9232		roland@heide-cook.com
William Lee, PE	427740	Chapter Program Chairman	7/1/2009	6/30/2010	Mechanical Engineers of Hawaii	50 S Beretania St Ste C208A	Honolulu, HI 96813	(808)521-8981	(808)536-5457	bleeco2000@aol.com
Albert Hahn, PE	5223599	CRC Action Chairman/Delegate	7/1/2009	6/30/2010	Douglas Engineering	55 Merchant Street #2501	Honolulu, HI 96813	(808)524-2434	(808)528-4228	ahahn@douglasengineering.com
Joseph K. Ting, PE	744105	Chapter Tech Transfer Chair	7/1/2009	6/30/2010	InSynergy Engineering, Inc.	828 Fort St Mall Suite 500	Honolulu, HI 96813	(808)521-3773	(808)521-3993	jting@insynergycorp.com
Kenneth Richardson	615830	Honors & Awards Chairman	7/1/2009	6/30/2010	Island Controls Inc	685 Kealahou St	Honolulu, HI 96825	(808)421-1600	(808)421-1622	ken@islandcontrols.com
Paul Scott	2022010	Research Promotion Chairman	7/1/2009	6/30/2010	Engineered Systems Inc	PO Box 865	Kailua, HI 96734	(808)263-2232	(808)263-3928	esikailua@aol.com
Paul Fukunaga, PE	2049093	Student Activities Chairman	7/1/2009	6/30/2010	Thermal Engineering Corp.	512 Kalihi St	Honolulu, HI 96819	(808)848-6966	(808)848-6964	fukunaga@thermaleng.com
Mofazzal Mir, PE	8085908	Membership Promotion Chairman	7/1/2009	6/30/2010	InSynergy Engineering, Inc.	828 Fort St Mall Suite 500	Honolulu, HI 96813	(808)521-3773	(808)521-3993	mmir@insynergycorp.com
Joseph K. Ting, PE	744105	Historian	7/1/2009	6/30/2010	InSynergy Engineering, Inc.	828 Fort St Mall Suite 500	Honolulu, HI 96813	(808)521-3773	(808)521-3993	jting@insynergycorp.com
Scott LaBeau	8129265	Refrigeration Chairman	7/1/2009	6/30/2010	DMG Hawaii	758 Kapahulu Ave # 411	Honolulu, HI 96816	(808)347-4277	(808)440-5617	scott.labeau@dmghvac.com
Albert Hahn, PE	5223599	Technical Seminar Chairman	7/1/2009	6/30/2010	Douglas Engineering	55 Merchant St #2501	Honolulu, HI 96813	(808)524-2434	(808)528-4228	ahahn@douglasengineering.com
Michael Chang	8104155	Chapter Webmaster	7/1/2009	6/30/2010	Hawaii Energy - Public Benefits Fee Administrator	1132 Bishop St Suite 1800	Honolulu, HI 96813	808-521-2186		michael.j.chang@saic.com
Alayna Shima	8081472	Young Engineer of ASHRAE Chairman	7/1/2009	6/30/2010	Katayama & Associates Inc	660 Ala Moana Blvd #204	Honolulu, HI 96813	(808)521-5086		alayna@katayama-assoc.com

Appendix 2: ASHRAE Hawaii Chapter - Organizational Chart

ASHRAE HAWAII CHAPTER - ORGANIZATIONAL CHART

Revised 3/2/10



Appendix 3: ASHRAE Hawaii Chapter Bylaws

**BYLAWS OF THE
HAWAII CHAPTER
OF THE
AMERICAN SOCIETY OF HEATING, REFRIGERATING
AND AIR-CONDITIONING ENGINEERS, INC.**

APPROVED BY THE SOCIETY: Pending

ARTICLE I – GOVERNMENT

1.1 Governing Instruments. The Hawaii Chapter (herein “Chapter”) of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (herein “Society”) shall be governed by its Constitution and these Bylaws, to the extent not inconsistent with the Certificate of Consolidation, Bylaws, and Rules of the Board of Directors of the Society.

1.2 Interpretation. The Board of Governors shall resolve all questions of interpretation of the Constitution and these Bylaws.

1.3 Rules of Order. Except as otherwise provided in the Constitution or these Bylaws, the conduct of meetings of the members shall be governed by the rules of procedure set forth in “Robert’s Rules of Order Newly Revised”.

ARTICLE II – MEMBERSHIP

2.1 Qualification. The membership of the Chapter shall consist of all members of the Society in good standing and residing in the geographic area of the Chapter, as prescribed by the Board of Directors of the Society, who have properly joined the Chapter.

2.2 Non-Residents. Notwithstanding the foregoing, a member of the Society residing in the geographic area of a Chapter may elect to be a member of another Chapter. A member may elect to belong to more than one Chapter.

2.3 Grade. Each member shall hold the same grade of membership in the Chapter as in the Society.

2.4 Rights and Privileges. All Chapter members shall be entitled to the same rights and privileges, except that (a) Affiliates, (b) Student Members, and (c) members who have not paid Chapter fees, dues, assessments or other charges within sixty (60) days of their due date shall not be entitled to voting privileges or the right to election or appointment as an officer, governor, or committee chair of the Chapter. All rights and privileges of a member are vested solely in the member and may not be delegated or transferred, except as provided in Article III, paragraph 3.7 hereof.

2.5 Suspension. In the event that a member does not pay all the Chapter fees, dues, assessments or other charges within six (6) months of their due date, all rights and privileges of membership in the Chapter shall be suspended. Such membership rights and privileges shall be restored to the member upon full payment thereof. Delinquency in payment of Chapter dues or other Chapter charges will not affect a member’s standing in the Society.

2.6 Termination. Membership in the Chapter shall terminate upon the death of any member, the removal of a member's principal place of residence to the geographic area of another Chapter except as provided in Article II, paragraph 2.2 hereof, or the receipt of written notice by the member of termination of membership. In the event of such termination, neither the former member, nor his/her personal representatives, heirs or devisees shall have any right, title or interest in the Chapter or its assets.

2.7 Expulsion. A member may be expelled from the Society and the Chapter only upon action taken by the Board of Directors of the Society. Such action may be initiated by the Board of Governors of the Chapter by the filing of written charges and supporting evidence with the Secretary of the Society.

ARTICLE III - MEETINGS OF MEMBERS

3.1 Regular Meetings. Meetings of the Chapter shall be held on at least a monthly basis from September through May or June at such time and place as is prescribed by the Board of Governors.

3.2 Annual Meeting. The annual meeting of the Chapter for the installation of officers and the Board of Governors and the announcement of committee appointments shall be held in the month of May or June at such time and place as is prescribed by the Board of Governors.

3.3 Special Meetings. Special meetings of the Chapter may be called by the President at the President's discretion, or at the request of the Board of Governors or 15 percent of the members with voting rights.

3.4 Notice of Meetings. Timely written notice of all meetings shall be sent by the Secretary to all members setting forth the place, date and hour of the meeting and, in the case of a special meeting, the purpose thereof.

3.5 Quorum. A quorum for the transaction of business at a meeting of the Chapter shall consist of 15 percent of the members having voting rights, except that no business may be transacted unless a majority of the Board of Governors is also in attendance.

3.6 Majority Vote. A majority of the number of votes cast in person or by proxy shall be necessary for the adoption of any matter, except as otherwise provided in the Constitution or these Bylaws.

3.7 Proxies. A member may vote on any matter by a written proxy executed and dated by the member. No proxy shall be valid after ninety (90) days from the date of its execution, unless otherwise provided in the proxy.

ARTICLE IV - DUES AND FINANCE

4.1 Society Dues. The annual dues for membership in the Society as prescribed from time to time by the Society, shall be paid to the Society.

4.2 Chapter Dues. The Board of Governors, in its discretion and subject to the approval by a vote of members, may levy such dues, fees, charges or other assessments as are reasonable and necessary to meet the current operating expenses of the Chapter. The due date of such payments shall be as prescribed by the Board of Governors.

4.3 Fiscal Year. The fiscal year of the Chapter shall end on June 30 of each year.

ARTICLE V - BOARD OF GOVERNORS

5.1 Duties. The property and affairs of the Chapter shall be managed by the Board of Governors. The Board of Governors may execute all business of the Chapter that does not require action by the full membership of the Chapter. The presiding officer shall report briefly on these actions at the next Chapter meeting.

5.2 Composition. The Board of Governors of the Chapter shall consist of the officers, the most recent available past president, and at least two members elected pursuant to Article VII hereof.

5.3 Meetings. The time and place of regular meetings of the Board of Governors shall be at the discretion of the Board. A special meeting of the Board of Governors may be called by the President at the President's discretion, or at the written request of two (2) members of the Board.

5.4 Quorum and Majority Vote. A quorum for the transaction of business shall consist of a majority of the Board present in person, and the majority vote of the members present in person or by proxy shall be necessary for the adoption of any matter, except as otherwise provided in the Constitution or these Bylaws. The form of proxies shall be governed by Article III, paragraph 3.7 hereof.

5.5 Notice of Meetings. Timely written notice of all meetings shall be sent by the Secretary to all members setting forth the place, date and hour of the meeting and, in the case of a special meeting, the purpose thereof.

5.6 Appointments to Auditing Committee. The Board of Governors-Elect shall appoint members to the Auditing Committee, pursuant to paragraph 8.3.7 hereof, at a meeting of the Board of Governors-elect held prior to the annual meeting of the Chapter. Appointments shall be announced at such annual meeting.

ARTICLE VI – OFFICERS

6.1 Titles. The officers of the Chapter shall be a President, a President-Elect, a Vice President, a Secretary, and a Treasurer.

6.2 Multiple Offices. With the exception of the office of President, any number of offices may be held by the same member.

6.3 The President. The President shall be the chief executive officer of the Chapter and shall have general direction of the affairs of the Chapter and general supervision over its several officers, subject however, to the control of the Board of Governors. The President shall, from time to time, report to the members and to the Board all matters within the President's knowledge which the interest of the Chapter may require to be brought to the Chapter's notice; shall preside at all meetings of the members and at all meetings of the Board; shall sign and execute in the name of the Chapter all contracts, or other instruments authorized by the Board, except in cases where the signing and execution thereof shall be expressly delegated or permitted by the Board or by these Bylaws to some other officer or agent of the Chapter.

6.4 The President-Elect. The President-Elect shall automatically succeed to the office of the President at the conclusion of the President's term of office. In the absence of the President, the President-Elect shall exercise the powers and perform the duties of the President. In addition, the President-Elect shall make the committee chair appointments sufficiently far in advance of the Chapters Regional Conference (CRC), or in the case of the Region at Large (RAL) the Annual Regional Conference (ARC), as to permit attendance by the appointees at CRC/ARC workshops in the period prior to appointees' active participation as chair of the Chapter Committees. Chair designees of such committees as Student Activities, Membership Promotion, Research Promotion, Chapter Technology Transfer and Historical should be especially encouraged to attend CRC/ARC meetings. Prior to the annual meeting, the President-Elect shall complete the appointments by naming at least two (2) committee members to each of the standing committees of the Chapter.

6.5 The Vice President. In the absence of the President and the President-Elect, the Vice President shall exercise the powers and perform the duties of the President. In addition, such Vice President shall act as the Editor of the chapter newsletter, Coordinating Officer of the Student Activities and Chapter Technology Transfer Committees.

6.6 The Secretary. The Secretary shall send notices of meetings to the members and to the Board of Governors as prescribed in these Bylaws, and to Committee Chairs as requested by the President. The Secretary shall keep the minutes of the meetings of the Chapter and of the Board of Governors and shall promptly file a copy of the minutes of each meeting of the Chapter with the Regional Chair and Regional Vice Chair (RVC) for Chapter Technology Transfer, and shall send advance notices and minutes of meetings of the Board of Governors to the Regional Chair. The Secretary shall maintain a membership roster, a roll of membership attendance, and such books, papers, and records as the Chapter or Board of Governors may direct, which shall be open to the inspection of any member of the Board of Governors. The Secretary shall promptly notify members of their nomination, election, or appointments to office. In addition, the Secretary shall serve as Coordinating Officer of the Membership Promotion, Reception, and Attendance Committees.

6.7 The Treasurer. The Treasurer shall receive all funds, including dues, fees, charges and other assessments, and shall deposit such funds in the name of the Chapter in banks or other depositories. The Treasurer shall disburse funds only as authorized by the Chapter's Board of Governors and shall keep appropriate records of receipts and expenses and shall exhibit such records at all reasonable times to any member of the Board of Governors. The Treasurer shall make a full financial report at the annual meeting of the Chapter, a copy of which shall be forwarded to the Regional Chair. In addition, in the absence of contrary written instructions from the Society, the Treasurer shall complete, execute and file any

statements or returns incidental to federal or local taxation. Checks issued by the Treasurer shall be countersigned by any Officer, of the Chapter. In addition, the Treasurer shall serve as Chair of the Finance Committee and as Coordinating Officer of the Research Promotion Committee.

6.8 Additional Duties. All officers shall perform all duties incident to their respective offices and such other duties as are prescribed by these Bylaws or as are assigned by the Board of Governors.

ARTICLE VII - NOMINATIONS, ELECTIONS, VACANCIES, AND REMOVAL

7.1 Eligibility for Re-election. Officers and Board members are elected for one-year terms, but may be re-elected to consecutive terms. The President may be re-elected to the same office for one additional consecutive term, the President-Elect will also need to be re-elected in accordance with the election procedure set forth in Section VII.

7.2 Duties of Nominating Committee. The Nominating Committee shall select from the members eligible to hold office one candidate for each office except President, and for each member to be elected to the Board of Governors and shall obtain from each candidate a written statement that the candidate is a member in good standing in the Society and consents to stand for election. Not less than thirty (30) days before the March meeting the Nominating Committee shall present to the Secretary the names of the candidates selected, together with their statements.

7.3 Duties of Secretary. Upon receipt of these names from the Nominating Committee, the Secretary shall prepare a list of the candidates and shall forward such list to all members with voting rights at least ten (10) days prior to such meeting.

7.4 Nomination by Members. Additional nominations of members in good standing who consent orally or in writing to be candidates may be made from the floor at such meeting. If at this meeting more than one such nomination from the floor is made for any one office or membership on the Board of Governors, a vote shall be taken to select the name of the opposition candidate to be placed on the ballot.

7.5 Voting and election. Not less than ten (10) days prior to the next meeting, the Secretary shall send a mail ballot, in the case of elections by mail, or a proxy statement, in the case of elections at meetings, to all members with voting rights. In the case of elections at meetings, the President shall appoint three (3) tellers to assist in conducting the election. The Board of Governors or the tellers, if any, shall promptly tally all votes. The candidate receiving a majority of the votes cast for each respective office shall be declared elected. If there is a tie vote, there shall be a run-off election.

7.6 Installation. Officers and members of the Board of Governors shall be installed and shall assume their duties at the annual meeting of the Chapter, as prescribed in Article III, paragraph 3.2 hereof, to serve until their successors are installed.

7.7 Vacancies. Whenever there shall be a vacancy in any office except President-Elect or on the Board of Governors by resignation or otherwise, the Board of Governors shall have the power to fill such office until the next annual election and installation, and such officer shall have the duties, rights, and privileges of the predecessor.

If the President dies, resigns, or is removed from office, the President-Elect shall immediately become President and shall serve for the remainder of the term of the immediate predecessor. If the time served by the President-Elect as President is less than six months, he/she shall continue to serve as President for the next Society year; therefore the office of President-Elect shall remain vacant until the next annual Chapter election. If the President-Elect dies, resigns, is removed from office, or becomes President for more than six months in accordance with the foregoing provisions, a special election shall be held to fill the vacancy.

7.8 Removal. Any officer or member of the Board of Governors may be removed by a 2/3 vote of voting members present at a regular meeting, whenever in the judgment of the members, the best interests of the Chapter will be served thereby. The notice of this Chapter meeting shall contain the statement that an item of importance to the Chapter will be presented for action.

ARTICLE VIII – COMMITTEES

8.1 General. All Chapter Committees shall be designated as Standing Committees or Special Committees. Standing Committees are mandatory and are of a continuing nature, while Special Committees are created for a specific purpose and may be dissolved when their functions have been completed.

8.2 Appointments. Except as noted herein, all Standing Committee members and respective Chair thereof shall be appointed by the President-Elect pursuant to Article 6.4.

8.3 Standing Committees. Standing Committees are primarily essential to chapter, regional and Society activities are broken into two categories: those that mandatory and those whose functions are essential to the Chapter operation. (a) Mandatory standing committees are Chapter Nominating; CRC/ARC Action, Student Activities, Membership Promotion, Research Promotion, Chapter Technology Transfer and Historical.(b) Committees essential to the Chapter operation are Attendance, Auditing, Program, Reception, Refrigeration, Publicity, Publications or Newsletter, Honors and Awards; and Special Events. The duties and functions of each Standing Committee (several of which may be combined under a single chair) are as follows:

8.3.1 CRC/ARC Action Committee. The CRC/ARC Action Committee shall determine major items of concern to the Chapter; obtain biographies on possible candidates for Society and regional offices, committees, and various regional and Society honors and awards; provide direction to the delegate and alternate delegate on actions to be presented on the Chapter's behalf at the CRC; and encourage the Chair of the Chapter Technology Transfer, Student Activities, Membership Promotion and Research Promotion Committees to attend the CRC. The Chair of this Committee should be a Past President of the Chapter.

8.3.2 Student Activities Committee. The Student Activities Committee shall assist and cooperate with other technical and scientific organizations to influence pre-college (K-12) education in math and sciences; shall assist in the formation and/or continuing operation of student branches of the chapter; and shall assist with chapter participation in continuing education courses and related activities. The Chairman of this Committee, or a designated substitute, is expected to attend the CRC/ARC Meeting.

8.3.3 Chapter Technology Transfer Committee: The committee shall develop liaison on technical issues with local levels of government, promote and administer the chapter technology and government activities awards programs, make arrangements for speakers for programs and technical sessions at chapter meetings, including speaker's requirements for equipment, accommodations and travel arrangements and act as host throughout the meetings. The committee shall coordinate the efforts of the chapter by making arrangements with area educational institutions for continuing education courses, and develop an active "Speakers Bureau" to present talks and seminars to chapters and regions. The committee shall submit PAOE points related to chapter programs, and technical and government activities. The committee shall provide timely reports to the regional vice chair. The chair of this committee, or a designated substitute, is expected to attend the CRC/ARC meeting.

8.3.4 Membership Promotion Committee. The Membership Promotion Committee shall encourage applications by persons qualified for membership in the Society; shall encourage increased member participation in Chapter affairs; and shall encourage members to advance in their membership grade in the Society. The Chairman of this Committee, or a designated substitute, is expected to attend the CRC/ARC Meeting.

8.3.5 Refrigeration Committee. The Refrigeration Committee shall promote the refrigeration activities of the Society by promoting the interests and endeavors of those members whose primary concern is refrigeration; shall provide or arrange technical talks on refrigeration to the members at regular Chapter meetings; shall cooperate with the Membership Promotion Committee to identify potential new members who are refrigeration oriented; shall promote chapter-sponsored seminars on refrigeration and shall arrange for continuing education in the refrigeration field. The activities of the Refrigeration Committee shall be coordinated with the Chapter Technology Transfer Committee, and if there is no Refrigeration Committee the activities described above shall be handled by the Chapter Technology Transfer Committee. The Chair of this Committee, or a designated substitute, is expected to attend the CRC/ARC Meeting.

8.3.6 Research Promotion Committee. The Research Promotion Committee shall conduct an annual campaign to obtain investments in ASHRAE Research, The ASHRAE Foundation and Education through the ASHRAE Learning Institute. The Chair of this Committee, or a designated substitute, is required to attend the CRC/ARC Meeting and Special Regional Committee Meeting when called by Regional Vice Chair for Research Promotion.

8.3.7 Auditing Committee. The Auditing Committee shall consist of three (3) members, none of whom shall be members of the Board of Governors, and shall elect its own chair.

8.3.8 Nominating Committee. The Nominating Committee shall consist of five (5) members in good standing. One member of the Board of Governors may serve on the Nominating Committee, but not as its chairman. The Committee shall be elected by the Chapter at the February meeting. At the preceding meeting, the Board of Governors shall submit to the members their nominations for the committee. Additional nominations may be made by Members from the floor at said meeting. Nominees receiving the five highest number of votes shall be elected. In the case of a tie, there shall be a runoff election which shall be held at the same meeting. The Nominating Committee shall elect its own chair.

8.3.9 Program Committee. The Program Committee, in conjunction with the Board of Governors and all other committees, shall arrange programs for the meeting of the Chapter.

8.3.10 Reception Committee. The Reception Committee shall encourage fellowship among members and shall extend cordial greetings to guests and new members of the Society.

8.3.11 Publicity Committee. The Publicity Committee shall publicize the name, purposes and activities of the Chapter in an effort to obtain qualified members; and shall report Chapter activities of public interest to the news media.

8.3.12 Attendance Committee. The Attendance Committee shall be responsible for contacting each member of the Chapter prior to each scheduled meeting or event to ensure that they have received notice of that meeting or event, and to ascertain the expected attendance.

8.3.13 Publications or Newsletter Committee. The Publications Committee shall obtain news of interest to the Chapter members and supervise the publishing of the Chapter newsletter or update the Chapter WEB site.

8.3.14 Historical Committee. The Historical Committee shall collect and safeguard facts, photographs, records and other memorabilia pertinent to the history of the Chapter. The Chair of this committee, or a designated substitute, is expected to attend the CRC/ARC meeting.

8.3.15 Honors and Awards Committee. The Honors and Awards Committee shall consist of a chair and at least two (2) additional members, preferably past chapter presidents. The Honors and Awards Committee shall promote the recognition of outstanding chapter members within the chapter, region, Society, associated societies and the community. The committee shall submit names of qualified chapter members to the Chapter CRC/ARC Action Committee.

8.3.16 Special Events Committee. The Special Events Committee shall handle the arrangements for any special events to be sponsored by the Chapter, or for other events to which the Chapter membership has been invited.

8.4 Other Committees. Additional committees shall be termed as Special Committees and may be appointed at any time by the President, with the advice and approval of the Board of Governors, and shall be announced at the next meeting of the Chapter

8.5 Vacancies. Whenever any member refuses an appointment to a committee or whenever there is a vacancy on any committee by resignation or otherwise, the President shall, with the advice and approval of the Board of Governors, appoint another member to such committee.

8.6 Removal. Any committee member appointed or elected may be removed by the person or persons authorized to appoint or elect such member whenever, in their judgment, the best interest of the Chapter will be served thereby, except that the President shall remove a member only with the advice and approval of the Board of Governors.

8.7 Attendance at Board Meetings. Committee Chair shall attend the meetings of the Board of Governors when so requested by the presiding officer, but shall not be entitled to voting rights at such meetings.

ARTICLE IX - CHAPTERS REGIONAL COMMITTEE

9.1 Election of Delegates. The Board of Governors-Elect shall elect from among its members one delegate and one alternate to the Chapters Regional Committee. At least one of said delegates shall be an officer-elect of the Chapter. The delegates shall be announced at the annual meeting of the Chapter. The names of such delegates shall be certified in writing by the Secretary to the Secretary of the Society and the Regional Chair by the first day of the following June.

9.2 Term. The delegate and alternate delegate shall serve for a term of one (1) year, commencing on the first day of June following their election. No member may be elected to serve as the delegate for more than two (2) consecutive terms; no member may be elected to serve as the alternate delegate for more than two (2) consecutive terms; and no member may be elected to serve in either capacity for more than four (4) consecutive terms.

9.3 Duties. The duties of the delegate and alternate delegate shall be as prescribed from time to time by the Society. They shall transmit recommendations concerning policies, procedures, and operations of the Society, its Chapter and its Student Branches to the Regional Chair in advance of the Chapters Regional Committee Meeting; shall attend such meeting; shall suggest candidates for the Board of Directors of the Society, Society Committees, and miscellaneous Society honors and awards; shall participate in the election of one (1) member and one (1) alternate member to serve on the Society Nominating Committee; and shall report to the Board of Governors of the Chapter regarding the business transacted at the Chapters Regional Committee Meeting, together with any recommendations for Chapter action.

9.4 Vacancies and Removal. Whenever either delegate is unable to fulfill this office, the Board of Governors shall appoint another delegate. Either delegate may be removed by the Board of Governors whenever, in its judgment, the best interest of the Chapter will be served thereby.

ARTICLE X – AMENDMENTS

10.1 Powers and Limitations. All Articles of these Bylaws shall be subject to alteration or repeal, consistent with the Certificate of Consolidation, Bylaws, and Rules of the Board of Directors of the Society and applicable tax regulations for non-profit organizations or corresponding provisions of applicable tax laws..

10.2 By Society. Amendments to these Bylaws set forth in written directives of the Secretary of the Society shall be adopted by a majority of the Board of Governors. Written copies of said amendments shall be sent by the Chapter Secretary to all members, or an officer of the Chapter shall read said amendments at the next succeeding Chapter Meeting.

10.3 By Chapter. Amendments to these Bylaws may also be initiated by a written resolution of a majority of the Board of Governors or by not less than five (5) members in good standing with voting privileges and may be presented at any meeting of the Chapter. If approved by a majority of the members present, the Chapter Secretary shall mail copies of the proposed amendments to all members not less than seven (7) days before the next succeeding meeting. If approved by a two-thirds (2/3) vote at such meeting, the Chapter Secretary shall forward such amendments to the Secretary of the Society for approval by the Charter and Bylaws Committee of the Society and review by the Regional Chair. Any amendments shall become effective only upon receipt of written notice of approval by the Charter and Bylaws Committee of the Society.

ARTICLE XI – ADOPTION

These Bylaws shall be completed and adopted by a majority of the Board of Governors. Written copies of said Bylaws shall be sent by the Secretary to all members and shall be sent, as amended, to such persons as shall, from time to time, become members of the Chapter.

Adopted by the Hawaii Chapter:

Date
February 8, 2008

Chapter President
Samuel F. Gillie