



Associate Society Alliance

MINUTES

ASHRAE ASSOCIATE SOCIETY ALLIANCE WINTER MEETING FEBRUARY 3, 2020

These minutes were approved by ASHRAE Associate Society Alliance June 17, 2020.



MINUTES
ASHRAE ASSOCIATE SOCIETY ALLIANCE
Orlando, Florida
3-February-2020

I. Call to Order

The 2020 Winter meeting of the ASHRAE Associate Society Alliance (AASA) was called to order at 2:30 pm by Chair, Tim Wentz, in Orlando III of the Hilton Orlando Hotel. Introductions were made and those in attendance are on the attached list (Attachment A1).

II. Review of Agenda

Added to agenda – MOU (PHVACR-ISHRAE)/Photo

III. Approval of Draft Minutes from Atlanta

It was moved and seconded

- 1) That the minutes from the 2019-06-24 AASA Meeting in Kansas City, Missouri be approved; minutes were unanimously approved

IV. Review of Action Items

Mr. Wentz reported the status on the following action items (Attachment B):

Action Item #6 (St. Louis) – ongoing

Action Item #11 (St. Louis) - ongoing

V. Proposed Restructuring of AASA

Open discussion on proposal

Next steps forward

- Results of past three years of discussion
 - Consensus on the need to speak with a unified voice
 - Consensus on the vast potential of the AASA
 - Consensus on AASA's current inability to serve as a unifying voice
 - Lack of consensus on how to get there
 - Global Alliance as one possibility
 - Transformed AASA as one possibility

Motion for Mission Statement (based on survey items 1, 23, 89)

To establish a global platform to raise the stature of the HVAC&R industry and influence decision-makers in creating a more sustainable world.

Background: Building on AASA's 60+ year history of cooperation we propose to further advance the mission of AASA, which will require robust debate, a forging of consensus and generating action plans to address technical issues that serve humanity. Areas of cooperation and collaboration between AASA members will be identified to produce jointly sponsored research projects, harmonized responses

and synergistic education/training and other mutually beneficial initiatives. The AASA will provide a platform to foster effective and fruitful exchanges of ideas and information between members in a structured manner.

MOTION (TO AMEND) PASSED. (22-0-2, chair not voting)

Amended Mission Statement

To establish a global platform to raise the stature of the HVAC&R industry, its science and application, ~~and~~ in order to influence decision-makers in creating a more sustainable world.

AMENDED MOTION PASSED. (17-1-4, chair not voting)

Motion for structure

To accept the organizational structure found in Attachment C.

Amended Motion for Structure

To reduce the geographical zones from five to four with all of Europe in one zone as found in Attachment D.

MOTION (TO AMEND) PASSED. (12-9-3, chair not voting)

VI. ASHRAE – UN Environment Cooperation

Technology dynamics associated with the Environmental Agreements

VII. Presentations by Associate Societies

- Video – KGH 50th International HVAC&R Congress and Exhibition
- Video – ACAIRE XVIII Expo at Barranquilla
- JSRAE | Gustav Lorentzen Conference 2020
6-9 December 2020 | Kyoto, Japan

VIII. New AASA Officers

Tim Wentz, Chair
Farooq Mehboob, Vice Chair
Sheila Hayter, Member

IX. Chair's Remarks

It was very difficult to get through the Agenda in the 2 hour timeslot. Therefore we will try to get an earlier start at future winter meetings.

Next AASA meeting:

ASHRAE 2020 Annual Conference – Austin, Texas, USA; June 29

X. Adjournment

Meeting adjourned at 5:58 p.m. by Chair, Tim Wentz

ASHRAE ASSOCIATE SOCIETY ALLIANCE (AASA)

Monday, February 3, 2020

Orlando, Florida

Sign-In Sheet

NAME	SOCIETY NAME	COUNTRY	EMAIL ADDRESS
Azim Ashraf	PHVACR	Pakistan	remcaa@gmail.com
Safdar Ali	PHVACR	Pakistan	saasst@hotmail.com
Umar Abbas	PHVACR	Pakistan	sus.umar90@gmail.com
Rainer Jakobs	DKV	Germany	jakobs@dkv.org
Jun Choi	SAREK	Korea	liya67@ktl.re.kr
Jim Chul Park	SAREK	Korea	jincpark@cau.ac.kr
Shin-ichi Tanabe	SHASE	Japan	tanabe@waseda.jp
Jaap Hogeling	TVVL	Netherlands	j.hogeling@isso.nl
Ioan Silviu Dobosi	ATCR	Romania	ioansilviu@dosetimpex.ro
Juan Travesi	ATECYR	Spain	jtravesi@achsl.com
Adnan Khurshid	PHVACR	Pakistan	architect_adnan@yahoo.com
Pedro Vicente	ATECYR	Spain	pedro.vicente@umh.es
Cu Nguyen Khanh	VISRAE	Vietnam	cnkhanh1986@gmail.com
Cu Xuan Dong	VISRAE	Vietnam	cuxuandong241057@gmail.com
Dusan Petras	SSTP	Slovakia	dusan.petras@stuba.sk
Javier Korenko	AAF	Argentina	javier_korenko@hotmail.com
Robert Aguilo	AAF	Argentina	rraguilo@yahoo.com
Oswaldo de S. Bueno	ABRAVA	Brazil	oswaldo@bueno.eng.br
Samoel De Souza	ABRAVA	Brazil	samoel@cacr.com.br
Akio Miyara	JSRAE	Japan	miyara@me.saga-u.ac.jp
Stephen Gill	IOR	UK	ior@stephencgill.com
Bratislav Blagojevic	KGH	Serbia	bbata@feniksbb.com
Branislav Todorovic	KGH	Serbia	todorobranko@gmail.com
Marija Todorovic	KGH	Serbia	todorovic.s.marija@gmail.com
Dimitris Charalambopoulos	TEE	Greece	dimitris@ashrae.gr
Zoltan Magyar	ETE	Hungary	zoltan.magyar.dr@gmail.com
Andres Sepulveda	ASHRAE	Spain	andres.sepulveda@commtech.es
Thomas Doebeli	SWKI	Switzerland	thomas.doebeli@promotionei.com
Carlos Mitroga	CCHRYC	Chile	cmitroga@danfoss.com
Luca Alberto Pitera	AICARR	Italy	lucapitera@aicarr.org
Adeeba Mehboob	PHVACR	Pakistan	adeeba.mehboob@smehboob.com
Farhan Mehboob	PHVACR	Pakistan	farhan.mehboob@smehboob.com
Vikram Murthy	ISHRAE	India	vikrammur@gmail.com
Didier Coulomb	IIR	France	d.coulomb@iifiir.org
Francesca d'Ambrosio	AICARR	Italy	fdambrosio@unisa.it
Maria Odete Almeida	EFRIARC	Portugal	presidente@efriarc.pt
Kemal Gani Bayraktar	TTMD	Turkey	bayraktar@izocam.com.tr
Khurram Malick	PHVACR	Pakistan	krmalick@gmail.com
Usman Tariq Chughtai	PHVACR	Pakistan	stassociates.isd@gmail.com
Tony Gleeson	AIRAH	Australia	tony.gleeson@airah.org.au
Paul Jackson	AIRAH	Australia	paul.jackson62@bigpond.com
Dimitris Karamitsos	BASE	Switzerland	
Costas Balaras	NOA	Greece	costas@noa.gr
Mick Schwedler	ASHRAE	USA	mschwedler@trane.com
Bassam Ziadeh	OEAT	Lebanon	esolutionslb@gmail.com
Tony Aazan	OEAB	Lebanon	
Jack Ghosn	OEAB	Lebanon	jack_ghosn@hotmail.com
Bjarne W. Olesen	ASHRAE	Denmark	bwo@byg.dtu.dk
Noboru Kagawa	JSRAE	Japan	kagawa@nda.ac.jp
Claudia Sanchez	ACAIRE	Colombia	acairecolombia@gmail.com

ASHRAE ASSOCIATE SOCIETY ALLIANCE (AASA)**Monday, February 3, 2020****Orlando, Florida****Sign-In Sheet**

Jim Curlin	UNEP	France	jim.curlin@unep.org
Rosie Evans	ASHRAE	Netherlands	revans@ashrae.org
Ayman Eltalouny	UNEP	Bahrain	ayman.eltalouny@un.org
Ashish Rakheja	ISHRAE	India	ashish.rakheja@aeonconsultants.in
Vladimir Muncan	ASHRAE	Serbia	vla.muncan@gmail.com
Alaa A. Olama	UNRTOC	Egypt	alaaolama@gmail.com
Bassam Elassaad	UNRTOC	Canada	belassaad@gmail.com
Walid Chakroun	ASHRAE	Kuwait	wchakroun@gmail.com
David Underwood	ASHRAE	Canada	dunderwood@hvacrtdu.com
Nivedita Jadlaw	ISHRAE	India	nivi2307@gmail.com
Tim Wentz	ASHRAE	USA	tim.wentz@windstream.net
Sheila Hayter	ASHRAE	USA	sheila.hayter@nrel.gov
Joyce Abrams	ASHRAE Staff	USA	jabrams@ashrae.org
Tammy Catchings	ASHRAE Staff	USA	tcatchings@ashrae.org
Vickie Grant	ASHRAE Staff	USA	vgrant@ashrae.org
Jeff Littleton	ASHRAE Staff	USA	jlittleton@ashrae.org



Report to AASA

ASHRAE Winter Meeting
Orlando, FL

Presenter: Timothy G. Wentz, PE, HBDP | Fellow/Presidential Member ASHRAE

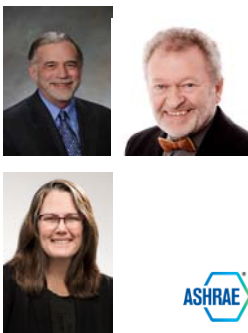
Path Forward

- From this foundation, how do we move AASA forward?




Past Three Years of Discussion

- Started as a presidential ad hoc committee
- Involved extensive debate throughout ASHRAE
- Surveys on expectations and needs




Path Forward

- First step is to transform AASA into a viable, effective organization
 - Allow AASA to make necessary future decisions




Results of the Discussion

- Consensus on the need to speak with a unified voice
- Consensus on the vast potential of the AASA
- Consensus on AASA's current inability to serve as a unifying voice
- Lack of consensus on how to get there
 - Global Alliance as one possibility
 - Transformed AASA as one possibility

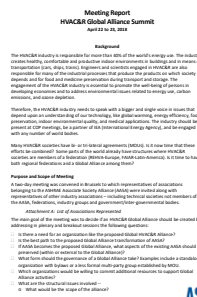


AASA at a crossroads



Path Forward

- Review of survey and feedback from AASA members at summit
- Identify common themes and vision




Path Forward

- Survey revealed the following common themes:
 - Clear mission statement is needed to define the path
 - Path forward will require AASA to have a stronger "voice"
 - To have a stronger voice, AASA will need a well-defined structure



AASA

- Lack of a strong "voice" by AASA due to absence of organizational structure
- AASA is listed as an "assembly" in the ASHRAE Rules of the Board (ROB)



AASA Mission

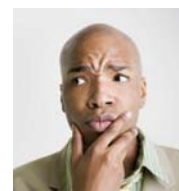
To establish a global platform to raise the stature of the HVAC&R industry and influence decision-makers in creating a more sustainable world

Survey Items 1, 23 & 89



AASA Structure

- What is an "assembly" according to ASHRAE?



Background to Mission

Building on AASA's 60+ year history of cooperation we propose to further advance the mission of AASA, which will require robust debate, a forging of consensus and generating action plans to address technical issues that serve humanity. Areas of cooperation and collaboration between AASA members will be identified to produce jointly sponsored research projects, harmonized responses and synergistic education/training and other mutually beneficial initiatives. The AASA will provide a platform to foster effective and fruitful exchanges of ideas and information between members in a structured manner.

Survey Items 2, 19, 21, 22, 24, 56, 61, 83, 86 and ROB 3.810



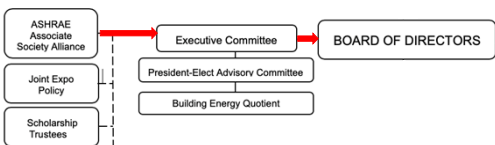
AASA Structure

I don't know



Current AASA Structure

- No structure for AASA in the ROB
- Only provides for a chair and a vice-chair
- ASHRAE immediate past president is a member
- ASHRAE president is Coordinating Officer



Reporting path as defined by ROB 3.810



AASA Proposed Structure

AASA Leadership Council		
Chair	Americas Councilor	Europe Region I Councilor
Vice Chair (ASHRAE Vice President)	Africa & Mid. East Councilor	Europe Region II Councilor
Incoming Chair (ASHRAE Past President)	Asia-South Pacific Councilor	



Current AASA Structure

- Over 60 members “at the table”
 - Each has a voice
 - Each has a vote
- Virtually impossible to discuss or debate issues in a single 3-hour meeting



Path Forward - Orlando

- Series of webinars by region
 - One in December
 - Two in January
 - Letter to membership
- Reach a consensus in Orlando
 - Mission
 - Structure
 - Future and present subcommittees
- Create roadmap for path forward



AASA Proposed Structure



Questions



ASHRAE

Associate Society Alliance Roster

7980411 Chief Staff Officer: Prof Roberto R Aguilo, PE
Adolfo Alsina 1433, 3er piso of. A2
Buenos Aires, C1088AAK
ARGENTINA

Organization: Asociacion Argentina del Frio
Acronym: AAF
Primary Phone: 011 15 3063-0011
Fax: 011 15 4373-0141
Email: aafrio@aafrio.org.ar
Website: <http://www.aafrio.org.ar>

President: Prof Roberto R Aguilo, PE
Committee Rep: Prof Roberto R Aguilo, PE

7980452 Chief Staff Officer: Mr Anthony Gleeson
Level 3, 1 Elizabeth Street
Melbourne, Victoria 3000
AUSTRALIA

Organization: Australian Institute of Refrigeration
A/C & Htg
Acronym: AIRAH
Primary Phone: 3-8623-3000
Fax: 3-9614-8949
Email: airah@airah.org.au
Website: <http://www.airah.org.au>

President: Mr Ian Harwood
Committee Rep: Mr Anthony Gleeson

8086115 Chief Staff Officer: Mr Franz Seyfried
Lainergasse 10-22/6
Wien, AT-1230
AUSTRIA

Organization: Oesterreichischer Kaelte-und
Klimatechnischer Verein
Acronym: OEKKV
Primary Phone: +43 1 923 14 51
Fax: +43 1 923 57 11
Email: gst1@oekkv.at
Website: <http://www.oekkv.at>

President: Mr Gerhard Neuhauser
Committee Rep: Mrs Irene Reichert

8274022 Chief Staff Officer: Mr Jaffar Y
Alsameikh
PO Box 835
Manama,
BAHRAIN

Organization: Bahrain Society of Engineers
Acronym: BSE
Primary Phone: 1772-7100
Fax: 1772-9819
Email: mohandis@bse.bh
Website: <http://www.mohandis.org>

President: Dheya A Aziz Towfiqi
Committee Rep: Mr Masoud Ebrahim Al
Hermi

7980415 Chief Staff Officer: Ms Veronique
Matthys
Interleuvenlaan 62-B
Leuven, 3000
BELGIUM

Organization: Royal Assoc Htg Ventilation A/C &
Related Sys
Acronym: ATIC
Primary Phone: 0 16 39 48 00
Fax: 0 16 39 48 01
Email: info@atic.be
Website: <http://www.atic.be>

President: Mr Joris P Mampaey, Ing
Committee Rep: Prof Jean J Lebrun

8142932 Chief Staff Officer: Miss Caroline Pires
Arabutan Street, 324
Bairro Navegantes
Porto Alegre, RS 90240-470
BRAZIL

Organization: Associacao Sul Brasileira De
Refrigeracao Ar Condicionado Ventilacao E
Aquecimento
Acronym: ASBRAV
Primary Phone: 51 3342 2964
Fax: 51 3342 9467
Email: assessoria@asbrav.org.br
Website: <http://www.asbrav.org.br>

President: Mr Luiz A Dias
Committee Rep: Mr Mario A Ferreira

8309555 Chief Staff Officer: Mr Ricardo Crepaldi
Rua Silvio Dante Bertachi
287 - Vila Sonia
Sao Paulo, SP 05625-000
BRAZIL

Organization: Associacao Brasileira de Facilities
Acronym: ABRAFAC
Primary Phone: 11 4872 2895
Fax:
Email: diretor.secretario@abrafac.org.br
Website: <http://www.abrafac.org.br>

President: Thiago Santana
Committee Rep: Thiago Santana

ASHRAE

Associate Society Alliance Roster

8217310	Chief Staff Officer: Mr Rodrigo Mercado Avenida Rio Branco, 1492-Sala SBCC Sao Paulo, SP 01206-001 BRAZIL President: Mr Gerson Luis Castro Catapano, Sr, Eng. Committee Rep: Mr Eduardo Almeida Lopes	Organization: Sociedade Brasileira De Controle De Contaminacao Acronym: SBCC Primary Phone: 12 3922 9976 Fax: 12 3912 3562 Email: sbcc@sbcc.com.br Website: http://www.sbcc.com.br
7980453	Chief Staff Officer: Mr Tales Felipe de Melo Av Rio Branco 1492 Sao Paulo, SP 01206-905 BRAZIL President: Arnaldo Basile, Jr Committee Rep: Mr Oswaldo D S Bueno, PE	Organization: Brazilian Assoc of Refrig A/C Ventilation & Htg Acronym: ABRAVA Primary Phone: 11 3361 7266 Fax: 11 3361 7160 Email: secretaria@abrava.com.br Website: http://www.abrava.com.br
8298998	Chief Staff Officer: Mr Carlos Alberto Mitroga, Eng Av. Miguel Claro 1909 Providencia Santiago, CHILE President: Mr Peter Yufer Committee Rep: Mr Carlos Alberto Mitroga, Eng	Organization: Camara Chilena de Refrigeracion y Climatizacion A.G. Acronym: CCHRYC Primary Phone: 2 2204-8805 Fax: 2 2204-7517 Email: info@cchryc.cl Website: http://www.cchryc.cl
7980428	Chief Staff Officer: Mrs Isabel Margarita Carrera Cuevas Av Salvador 716 P3 Providencia Santiago, CHILE President: Mr Joaquin Reyes Committee Rep: Mr Juan Carlos Troncoso Urzua	Organization: Cooling & AC Tech Div of Chile Acronym: DITAR Primary Phone: 2 2341-4906 Fax: 2 2204-7517 Email: info@ditar.cl Website: https://www.ditar.cl
7980428	Chief Staff Officer: Mrs Isabel Margarita Carrera Cuevas Av. Ricardo Lyon 748 Providencia Santiago, CHILE President: Mr Joaquin Reyes Committee Rep: Mr Juan Carlos Troncoso Urzua	Organization: Cooling & AC Tech Div of Chile Acronym: DITAR Primary Phone: 2 2341-4906 Fax: 2 2204-7517 Email: info@ditar.cl Website: https://www.ditar.cl
7980428	Chief Staff Officer: Mrs Isabel Margarita Carrera Cuevas NYC street 53, Office No. 61 Downtown Santiago, 8320320 CHILE President: Mr Joaquin Reyes Committee Rep: Mr Juan Carlos Troncoso Urzua	Organization: Cooling & AC Tech Div of Chile Acronym: DITAR Primary Phone: 2 2341-4906 Fax: 2 2204-7517 Email: info@ditar.cl Website: https://www.ditar.cl

ASHRAE

Associate Society Alliance Roster

7980450 Chief Staff Officer:
30 East Road, North Third Ring Road
Choayang District
Beijing, 100013
CHINA

Organization: China Committee of HVAC
Acronym: CCHVAC
Primary Phone: 010 6469 3287
Fax: 010 6469 3285
Email: chvac2008@sina.com
Website: <http://www.chinahvac.com.cn>

President: Mr Wei Xu
Committee Rep: Prof Xudong Yang

7980454 Chief Staff Officer: Mr Meng Qinguo
10th Floor, Yindu Building
No 67 Fucheng Rd; Haidian Dist
Beijing, 100142
CHINA

Organization: Chinese Association of Refrigeration
Acronym: CAR
Primary Phone: 10 6871 1410
Fax: 10 6843 4679
Email: hqjing@car.org.cn
Website: <http://www.car.org.cn>

President: Mr Jiawei Jin
Committee Rep: Jing Huaqian

2054864 Chief Staff Officer: Ms Claudia Sanchez Mendez
Calle 70 No 12-85
Barrio Quinta Camacho
Bogota DC, 110231
COLOMBIA

Organization: Asociacion Colombiana del Acondicionamiento de Aire y de la Refrigeracion
Acronym: ACAIRE
Primary Phone: 1 805 3139
Fax: 1 248 9223
Email: acaire@acaire.org
Website: <http://www.acaire.org>

President: Mr Giovanni Barletta
Committee Rep: Mr Gerardo Alfonso

8058027 Chief Staff Officer: Marek Madr
Novotneho lavka 5
Praque, 116 68
CZECH REPUBLIC

Organization: Society of Environmental Engineering
Acronym: STP
Primary Phone: 221 082 353
Fax: 221 082 201
Email: stp@stpcr.cz
Website: <http://www.stpcr.cz>

President: Prof Karel Kabele, CSc.
Committee Rep: Prof Karel Kabele, CSc.

8256940 Chief Staff Officer: Eigil Nielsen
Søren Lofts Vej 17
Viby J, 8260
DENMARK

Organization: Danish Refrigeration Association
Acronym: DRA
Primary Phone: 2945 2660
Fax:
Email: mail@dkforening.dk
Website: <http://www.dkforening.dk>

President: Mr Dan Fred Jakobsen
Committee Rep:

7980451 Chief Staff Officer: Claus Andreasson
Paul Bergsøes Vej 6
Glostrup, DK-2600
DENMARK

Organization: Danish Society of Heating, Ventilation and Air Conditioning Engineers
Acronym: DANVAK
Primary Phone: 3636 9060
Fax: 3670 2071
Email: info@danvak.dk
Website: <http://www.danvak.dk>

President: Christina Dael
Committee Rep:

8142931 Chief Staff Officer: Ms Graciela Alban
Cda. Bolivariana, Calle J.A. Paez
Mz CV-4, PO Box 078-A
Guayaquil,
ECUADOR

Organization: Asociacion Tecnica Ecuatoriana de Aire Acondicionado Y Refrigeracion
Acronym: ATEAAR
Primary Phone: 4 600 1145
Fax: 4 228 6171
Email: presidencia@ateaar.org
Website: <http://www.ateaar.org>

President: Mr Jorge Eduardo Donoso
Committee Rep: Mr Jorge Eduardo Donoso

ASHRAE

Associate Society Alliance Roster

7980933	Chief Staff Officer: 20 Ramses Street Cairo, EGYPT President: Committee Rep: Mr Ashraf A El-Attar	Organization: Egyptian Society of Mechanical Engineers Acronym: ESME Primary Phone: 2 574 1290 Fax: 2 574 0569 Email: info@esme-egypt.com Website: http://esme-egypt.com
7981706	Chief Staff Officer: Mr Siru Lonnqvist Sitratori 5 Helsinki, 00420 FINLAND President: Dr Olli A Seppanen Committee Rep: Dr Olli A Seppanen	Organization: Finnish Association of HVAC Societies Acronym: FINVAC Primary Phone: 09 566 5095 Fax: 09 566 5093 Email: info@finvac.org Website: http://www.finvac.org
7981684	Chief Staff Officer: Toolonkatu 4 Helsinki, 00100 FINLAND President: Dr Olli A Seppanen Committee Rep: Mr Matti Remes	Organization: Society of Bldg Svcs and Engy Engrs Acronym: LIVI Primary Phone: 9 684 0780 Fax: 9 588 3192 Email: ril@ril.fi Website: https://www.ril.fi
7981684	Chief Staff Officer: Lapinlahdenkatu 1 B Helsinki, 00180 FINLAND President: Dr Olli A Seppanen Committee Rep: Mr Matti Remes	Organization: Society of Bldg Svcs and Engy Engrs Acronym: LIVI Primary Phone: 9 684 0780 Fax: 9 588 3192 Email: ril@ril.fi Website: https://www.ril.fi
7980783	Chief Staff Officer: Ms Deonie Lambert 177, Boulevard Malesherbes Paris, 75017 FRANCE President: Mr Didier Coulomb Committee Rep: Mr Didier Coulomb	Organization: Institut International du Froid Acronym: IIR Primary Phone: 1 42 27 32 45 Fax: 1 47 63 17 98 Email: iif-iir@iifiir.org Website: http://iifiir.org
7981707	Chief Staff Officer: Marylene Morfouace 66 Rue De Rome Paris, 75008 FRANCE President: Mr Yves Nioche Committee Rep: Mr Francis Allard	Organization: French Assoc of Heating & Ventilation Engineers Acronym: AICVF Primary Phone: 1 53 04 36 10 Fax: 1 42 94 04 54 Email: secretariat@aicvf.org Website: http://www.aicvf.org
8261980	Chief Staff Officer: Nino Maglakelidze 25 Moscow Avenue Tbilisi, GEORGIA President: Committee Rep: Dr Sulkhan Suladze	Organization: Georgian Association of Refrigerating, Cryogenic & Air Conditioning Engineers NGO Acronym: GARCAE-NGO Primary Phone: 32-271-43-17 Fax: Email: gra@post.ge Website: http://www.garcae.org.ge

ASHRAE**Associate Society Alliance Roster**

7981694	Chief Staff Officer: Carmen Stadlaender Striehlstrasse 11 Hannover, D-30159 GERMANY President: Dr Ullrich Hesse Committee Rep: Dr Rainer M Jakobs	Organization: Deutscher Kaelte-und Klimatechnischer Verein e.V. Acronym: DKV Primary Phone: 511 897 0814 Fax: 511 897 0815 Email: info@dkv.org Website: http://www.dkv.org
5070123	Chief Staff Officer: Ms Olga Kalantzopoulou 4 Nikis Str Athens, 10248 GREECE President: Mr Giorgos Stasinou Committee Rep: Mr Dimitris A Charalambopoulos	Organization: Technical Chamber Of Greece Acronym: TEE Primary Phone: 21 0329 1733 Fax: 21 0322 2504 Email: greok@central.tee.gr Website: http://www.tee.gr
7981708	Chief Staff Officer: Dr Zoltan Magyar Main Street 68 Budapest, 1027 HUNGARY President: Nagyunyomi-Senyi Gabor Committee Rep: Dr Zoltan Magyar	Organization: Epitestudományi Egyesület Acronym: ETE Primary Phone: 30 9 642 500 Fax: 1 156 1215 Email: info@eptud.org Website: http://www.eptud.org
7981696	Chief Staff Officer: Ystibaer 11 Reykjavik, 110 ICELAND President: Gudmundur Hjalmarsson Committee Rep: Mr Kristjan Ottosson	Organization: The Icelandic Htg, Ventilating & Sanitary Assoc Acronym: ICEVAC Primary Phone: 587 0660 Fax: 587 4162 Email: lafi@isl.is Website: http://www.lafi.is
7981710	Chief Staff Officer: Mr Ashwini Mehra 1103-1104, 11th Fl, Chiranjiv Tower 43, Nehru Place New Delhi, 110019 INDIA President: Mr Vikram Murthy Committee Rep: Mr C Subramaniam	Organization: Indian Society of Htg Refrig & A/C Engineers Acronym: ISHRAE Primary Phone: 11 4163 5655 Fax: 11 2923 4925 Email: info@ishraehq.in Website: http://www.ishrae.in
7981710	Chief Staff Officer: Mr Ashwini Mehra K-43 (Basement) Kailash Colony New Delhi, 110048 INDIA President: Mr Vikram Murthy Committee Rep: Mr C Subramaniam	Organization: Indian Society of Htg Refrig & A/C Engineers Acronym: ISHRAE Primary Phone: 11 4163 5655 Fax: 11 2923 4925 Email: info@ishraehq.in Website: http://www.ishrae.in
8217311	Chief Staff Officer: Dr Abdolrazzagah Kaabi-nejadian Yadegar-Emam xway PO Box 14665-1169 Shahid Dadman Ave, Shahrak-e-Ghods Tehran, IRAN President: Dr Abdolrazzagah Kaabi- nejadian Committee Rep: Dr Abdolrazzagah Kaabi- nejadian	Organization: Iranian Society of Heating, Refrigeration and Air Conditioning Engineers Acronym: IRSHRAE Primary Phone: 21-8809-1539 Fax: 21-8809-1539 Email: info@irshrae.ir Website: http://www.irshrae.ir

ASHRAE

Associate Society Alliance Roster

7981697 Chief Staff Officer: P O Box 50048 Tel Aviv, 61500 ISRAEL President: Mr Amos Berkovich Committee Rep:	Organization: Israel Soc Htg Refrig & A/C Engineers Acronym: ISHRACE Primary Phone: 97235160281 Fax: 97235160283 Email: marshaldl@netvision.net.il Website:
--	---

7981713 Chief Staff Officer: Mr Luca Alberto Pitera, P.Eng Via Melchiorre Gioia 168 Milan, 20125 ITALY President: Prof Francesca Romana d'Ambrosio, PhD Committee Rep: Mr Luca Alberto Pitera, P.Eng	Organization: Italian Association of Air Conditioning, Heating & Refrigeration Acronym: AICARR Primary Phone: 02 67479270 Fax: 02 67479262 Email: info@aicarr.org Website: http://www.aicarr.org
---	--

7994172 Chief Staff Officer: Mr Kenji Matsuda Nihonbashi Otomi Bldg. 13-7 Nihonbashiodenmacho, Chuo-ku Tokyo, 103-0011 JAPAN President: Mr Kuniaki Kawamura Committee Rep: Prof Akio Miyara, PhD	Organization: Japan Society of Refrigerating & A/C Engineers Acronym: JSRAE Primary Phone: 3-5623-3223 Fax: 3-5623-3229 Email: reito@jsrae.or.jp Website: http://www.jsrae.or.jp
--	--

7981715 Chief Staff Officer: Mr Atsushi Sugiyama 4-8 Kagurazaka Shinjuku-Ku Tokyo, 162-0825 JAPAN President: Prof Shin-ichi Tanabe Committee Rep: Mr Tetsuya Maekawa	Organization: Society of Htg A/C & Sanitary Engrs of Japan Acronym: SHASE Primary Phone: 3-5206-3600 Fax: 3-5206-3603 Email: sugiyama@shase.or.jp Website: http://www.shasej.org
--	--

7994173 Chief Staff Officer: Mr Egils Dzelzitis, Eng Stirnuieļa 34 Rīga, LV-1084 LATVIA President: Mr Egils Dzelzitis, Eng Committee Rep: Mr Egils Dzelzitis, Eng	Organization: Assoc of Heat Gas & Water Technology Acronym: AHGWTEL Primary Phone: 6714-9361 Fax: Email: info@lsgutis.lv Website: http://www.lsgutis.lv
--	---

8080424 Chief Staff Officer: Mr Simon Nasr House of Engineers Street, Sector 4 Mar Elias Beirut, 11072120 LEBANON President: Mr Jack Joseph Ghosn Committee Rep: Mr Eddy Abdel-Hay	Organization: Order of Engineers & Architects Beirut Acronym: OEAB Primary Phone: 850-111 Fax: 826-145 Email: info@oea.org.lb Website: http://www.oea.org.lb
--	--

8167075 Chief Staff Officer: Mr Anthony Azar, Eng Dam Wel Farez near Al Wafa Mosque PO Box 446 Tripoli, LEBANON President: Bassam Ziadeh Committee Rep: Dr Mohamad Hazim	Organization: Order of Engineers and Architects Tripoli Acronym: OEAT Primary Phone: 6-413-110 Fax: 6-430-972 Email: info@oea-tripoli.org.lb Website: https://oea-tripoli.org.lb
--	--

ASHRAE**Associate Society Alliance Roster**

7994174 Chief Staff Officer: Rolandas Jonynas Donelaicio Str. 20-232 Kaunas, LT-44239 LITHUANIA President: Dr Rimantas Bakas Committee Rep: Mr Stasys Sinkunas	Organization: Lithuanian Thermotechnical Engineers Society Acronym: LITES Primary Phone: 3-730-0436 Fax: 3-732-1449 Email: lites@ktu.lt Website: http://www.ktu.lt/LISTIA
7994177 Chief Staff Officer: Mr Victor Espinola Av. San Antonio 319-105 Col. San Pedro de los Pinos Mexico, DF CP 03800 MEXICO President: Mr Eloy Fabian Munoz Monter Committee Rep: Mr Victor Espinola	Organization: Mexican Assoc Co Indus Bldg Installation Acronym: AMERIC Primary Phone: 55-5611-5414 Fax: 55-5611-1821 Email: direccion@americmx.com Website: http://www.americmx.com
7994178 Chief Staff Officer: Joop H. Hoogkamer Ecofactorij 18 Apeldoorn, 7325 WC NETHERLANDS President: Peter E.J. Augustinus Committee Rep: Mr Jan Aufderheijde	Organization: Royal Dutch Association of Refrigeration Acronym: KNVVK Primary Phone: 55-368-3362 Fax: 31-869-7199 Email: info@knvvk.nl Website: http://www.knvvk.nl
7994181 Chief Staff Officer: Mr John Lens Korenmolenlaan 4 Woerden, 3447 GG NETHERLANDS President: Mr Henk W van Dorp Committee Rep: Mr Hans Besselink	Organization: Dutch Society for Building Services Acronym: TVVL Primary Phone: 33-434-5750 Fax: 33-432-1581 Email: info@tvvl.nl Website: http://www.tvvl.nl
7994182 Chief Staff Officer: Ms Christine Johnston P O Box 217184 Botany Junction Auckland, 2164 NEW ZEALAND President: Mr Ashwin Patel Committee Rep:	Organization: Institute of Refrig Heating & A/C Engrs of NZ Acronym: IRHACE Primary Phone: 9-273-0044 Fax: 9-273-0045 Email: admin@irhace.org.nz Website: http://www.irhace.org.nz
7994187 Chief Staff Officer: Mr Thor-Jostein Egeland PO Box 2843 Toyen Oslo, N-0608 NORWAY President: Jo Helge Gilje Committee Rep:	Organization: Norwegian Society of HVAC Engineers Acronym: NORVAC Primary Phone: 2259-8800 Fax: 2269-0870 Email: norvac@skarland.no Website:
7994209 Chief Staff Officer: Mr Ahmad Naeem Chughtai Suite #8, 1st Floor Shahwaiz Centre F-8 Markaz Islamabad, 44000 PAKISTAN President: Mr Khurram R Malick Committee Rep: Mr Usman Tariq Chughtai, Eng	Organization: Pakistan HVACR Society Acronym: PHVACR Primary Phone: 51 228 7560 Fax: 51 228 7561 Email: executivesecretary@hvacr.org.pk Website: http://www.hvacr.org.pk

ASHRAE

Associate Society Alliance Roster

8197059	Chief Staff Officer: Prof Luis M Yamada Av. Angamos Oeste 355 Ofic. 1201 - Miraflores Lima, 18 PERU President: Prof Luis M Yamada Committee Rep: Prof Luis M Yamada	Organization: Asociación Peruana de Ventilación, Aire Acondicionado, Refrigeración y Calefacción Acronym: APVARC Primary Phone: 1-263-5255 Fax: 1-718-8533 Email: apvarc@gmail.com Website: http://www.apvarc.org
7994215	Chief Staff Officer: Mr Jaime Jajay E Cruz Units 924 & 925 Cityland Shaw Tower Shaw Blvd Corner Saint Francis St. Mandaluyong City, 1550 PHILIPPINES President: Mr Jaime Jajay E Cruz Committee Rep: Mr Jaime Jajay E Cruz	Organization: Philippine Soc of Vent A/C & Ref Engineers Acronym: PSVARE Primary Phone: 2-638-6539 Fax: 2-910-2721 Email: psvare@pldtdsl.net Website: http://www.psvare.com.ph
8230801	Chief Staff Officer: Mr Cesar Luis D L Lim G/F KB Arizona Tower 838 P. Campa Street, Sampaloc Manila, PHILIPPINES President: Mr Jeffrey F Singson Committee Rep: Mr Cesar Luis D L Lim	Organization: Philippine Society of Mechanical Engineers, Inc. Acronym: PSME Primary Phone: 2-736-2043 Fax: 2-493-4268 Email: psme_national@yahoo.com Website: http://www.psme.org.ph
8256943	Chief Staff Officer: Mr Dominador De Guzman Castro, Jr 2nd Floor Architectural Center Club R. Palma Street Rockwell, Makati, PHILIPPINES President: Mr David B Farala Committee Rep: Mr Dominador De Guzman Castro, Jr	Organization: Philippine Green Building Initiative Acronym: PGBI Primary Phone: 2-638-6539 Fax: 2-910-2721 Email: pgbi.secretariat@gmail.com Website: http://www.greenbuilding.ph
7994217	Chief Staff Officer: Mirosława Gebśka Czackiego Str 3/5 Warsaw, 00-043 POLAND President: Krystyna Korniak-Figa Committee Rep: Dr Piotr Bartkiewicz	Organization: Polish Assoc Sanitary Engineers & Technicians Acronym: PZITS Primary Phone: 22-826-2894 Fax: 22-827-2949 Email: biuro@pzits.org.pl Website: http://www.pzits.pl
7994219	Chief Staff Officer: Isabel Cesar Av. Barbosa du Bocage, 87 – 4º EFRIARC Lisboa, 1050-030 PORTUGAL President: Ms Maria Odete de Almeida Committee Rep: Ms Olga Sobral Castro	Organization: Associacao Portuguesa dos Engenheiros de Frio Industrial e de Ar Condicionado Acronym: EFRIARC Primary Phone: 2-1096-6993 Fax: 2-1726-9985 Email: efriarc@efriarc.pt Website: http://www.efriarc.pt

ASHRAE

Associate Society Alliance Roster

8352158	Chief Staff Officer: Ms Gratiela Maria Tarlea 66 Pache Protopopescu Sector 2 Bucharest, 73232 ROMANIA President: Ms Gratiela Maria Tarlea Committee Rep: Ms Gratiela Maria Tarlea	Organization: Romanian General Association of Refrigeration Acronym: AGFR Primary Phone: 23-631-2437 Fax: 23-646-3059 Email: office@agfr-instruire-certificare.ro Website: http://www.agfro.ro
7994220	Chief Staff Officer: Prof Alexandru Serban, PhD, Eng 111, Domneasca Building G, Room 006 Galati, 800201 ROMANIA President: Mr Liviu Geo Drughean Committee Rep: Dr Florea N Chiriac	Organization: Romanian Association for Refrigeration & Cryogenics Acronym: AFCR Primary Phone: 236-312437 Fax: 236-463059 Email: office@criofrig.ro Website: http://www.criofrig.ro
7994930	Chief Staff Officer: Mr Vadim Potapov Tsvetvoi bulvar 21, str. 6 Moscow, 127051 RUSSIA President: Mr Yuri A Tabunschikov Committee Rep: Prof Marianna M Brodatch	Organization: Russian Assoc Engrs HVAC Heat Supply & Bldg Thermal Physics Acronym: ABOK Primary Phone: 495-621-8048 Fax: 495-621-6429 Email: brodatch@abok.ru Website: http://www.abok.ru
7994968	Chief Staff Officer: Mr Vladan Galebovic Ulica Kneza Milosa 7a/II Belgrade, 11000 SERBIA President: Dr Branislav B Todorovic, PhD Committee Rep: Dr Branislav B Todorovic, PhD	Organization: Serbian Society of HVAC&R-KGH Acronym: KGH Primary Phone: 11-323-0041 Fax: 11-323-1372 Email: office@smeits.rs Website: http://www.smeits.rs
8067951	Chief Staff Officer: Zuzana Svecova Kocelova 15 Bratislava, 81594 SLOVAKIA President: Mr Dusan Petras Committee Rep:	Organization: Slovak Society of Environmental Technology Acronym: SSTP Primary Phone: 2-5556-7748 Fax: 2-5556-7748 Email: sstp@zsvts.sk Website: http://www.sstp.sk
7994933	Chief Staff Officer: Suzana Domjan Askerceva 6 Ljubljana, 1000 SLOVENIA President: Mr Uros Stritih Committee Rep: Mr Uros Stritih	Organization: Slovenia Society of Refrig Htg & A/C Engrs Acronym: SITHOK Primary Phone: 1-477-1312 Fax: 1-251-8567 Email: sithok@fs.uni-lj.si Website: http://lab.fs.uni-lj.si/sithok
7994934	Chief Staff Officer: Marlene Gamble 36 Conyngham ST Parsons Hill Port Elizabeth, 6001 SOUTH AFRICA President: Marius la Grange Committee Rep:	Organization: South African Institute of Refrig & A/C Acronym: SAIRAC Primary Phone: 82 872 0030 Fax: 41 466 0608 Email: Website: http://www.sairac.co.za

ASHRAE

Associate Society Alliance Roster

7994939	Chief Staff Officer: Ms Hyun-Kyung Jeon 902 The Korea Science & Tech Center 22, 7gil Teheran-ro, Gangnam-gu Seoul, 06130 SOUTH KOREA President: Prof Jin Chul Park Committee Rep: Mr Jun Y Choi	Organization: Society of A/C and Refrig Engineers of Korea Acronym: SAREK Primary Phone: 25548571 Fax: 25523929 Email: hvac@sarek.or.kr Website: http://www.sarek.or.kr
8352159	Chief Staff Officer: Prof Minki Sung, PhD #201, 87 Hyoryung-Ro Seocho-Gu Seoul, 06687 SOUTH KOREA President: Prof Chang-Ho Choi Committee Rep: Prof Kwang Ho Lee	Organization: Korean Institute of Architectural Environment and Building Systems Acronym: KIAEBS Primary Phone: 2 552-0412 Fax: 2 552-8012 Email: kiaebs@kiaebs.org Website: http://www.kiaebs.org/
7994944	Chief Staff Officer: Ms Sonia Navarro Plaza España s/n Barcelona, 08004 SPAIN President: Manel Mayoral Committee Rep: Mr Antonio Marquez Briones	Organization: Catalan Assoc Tech Energy A/C & Refrigeration Acronym: ACTECIR Primary Phone: 932-332-429 Fax: 934-231-175 Email: actecir@actecir.cat Website: http://www.actecir.cat
7994945	Chief Staff Officer: Ana Magdaleno c/Agastia, 112 A Madrid, 28043 SPAIN President: Mr Miguel Angel Llopis Committee Rep: Mr Juan Travesi	Organization: Spanish Tech Assoc A/C & Refrigeration Acronym: ATECYR Primary Phone: 917-671-355 Fax: 917-670-638 Email: info@atecyr.org Website: http://www.atecyr.org
7994948	Chief Staff Officer: Mr Stefan Jakob Drottninggatan 33 2 Tr Stockholm, 111 51 SWEDEN President: Ann-Charlotte Andersson Committee Rep: Mrs Veronica Eade	Organization: Swedish Society of Htg A/C Engineers Acronym: SWEDVAC Primary Phone: 8-791-6680 Fax: 8-660-3944 Email: info@energi-miljo.se Website: http://www.energi-miljo.se
7994951	Chief Staff Officer: Ms Jeannine Haymoz Solothurnstrasse 13 Schonbuhl, CH-3322 SWITZERLAND President: Mr Michael De Martin Committee Rep: Mr Thomas Doebeli	Organization: Swiss Society of Heating & A/C Engineers Acronym: SWKI Primary Phone: 31-852-1300 Fax: 31-852-1301 Email: info@die-planer.ch Website: http://www.die-planer.ch
7994956	Chief Staff Officer: Ms Handan H Ozgen Besterkar Sokak Cimen Apt. No 15/2 Kavaklidere, Ankara, 06680 TURKEY President: Dr Kemal Gani Bayraktar Committee Rep: Erol Ergezen	Organization: Turkish Society of HVAC & Sanitary Engineers Acronym: TTMD Primary Phone: 312-419-4571 Fax: 312-419-5851 Email: ttmd@ttmd.org.tr Website: http://www.ttmd.org.tr

ASHRAE

Associate Society Alliance Roster

7980935 Chief Staff Officer: Mrs Miriam Rodway
 76 Mill Lane Carshalton
 Kelvin House
 Surrey, SM5 2JR
 UNITED KINGDOM

Organization: The Institute of Refrigeration
 Acronym: IOR
 Primary Phone: 20-8647-7033
 Fax: 20-8773-0165
 Email: ior@ior.org.uk
 Website: <http://www.ior.org.uk>

President: Mr Kevin Glass
 Committee Rep: Dr Andrew B Pearson

8189713 Chief Staff Officer: Mr Agustin Bertolotti
 Iturriaga 3433
 Attn: Mr. Agustin Bertolotti
 Montevideo, 11300
 URUGUAY

Organization: Asociacion Uruguay de Refrigeracion, Ventilacion, Aire Acondicionado y Calefaccion
 Acronym: ASURVAC
 Primary Phone: 26280434
 Fax: 26283550
 Email: asurvac@adinet.com.uy
 Website:

President: Mr Santiago Raul Garcia
 Committee Rep: Mr W Luis Lagomarsino

7994965 Chief Staff Officer:
 Av Teresa De La Parra Edif Oceania
 2o Piso Ofic 3 Santa Monica
 Caracas,
 VENEZUELA

Organization: Assoc Nacional Capitulo Tech ASOFRIO
 Acronym: TECFRIO
 Primary Phone: 5826629458
 Fax: 5826629458
 Email:
 Website:

President: Mr Humberto E Barrientos
 Committee Rep: