

AASC Business Meeting Minutes – June 28-30, 2017



Crowne Plaza Hotel Ballroom, Asheville, NC

Wednesday, June 28th

8:30 am – 12:00 pm **AMS Applied Climate Conference Sessions
(AASC Members Welcome to Attend)**

1:30 pm – 1:45 pm **AASC Annual Meeting Opens, Welcome by Hosts** Hope Mizzell (SC),
AASC President:

- Welcome, on behalf of the AASC Executive Committee. The AASC started meeting in 1976, and we come back to Asheville every 5 or 6 years, and often do joint meetings with the AMS Applied Climate Committee. Very first AASC annual meeting had 8-10 people. We now have 25-35 SCs and 65 to 85 or more total attendees. Glen Conner (KY SC Emeritus) has been to every single AASC meeting. He will be our keynote speaker at the banquet. Introduced EC – Glenn Kerr, Executive Director with office located in Asheville, Secretary Nancy Selover (AZ), Treasurer David Zierden (FL), NCEI liaison Tami Houston, NWS liaison Fiona Horsfall, and Past President Dan Leathers (DE) – couldn't attend this year due to an accident. Thank you to Tami and Glenn for planning this meeting. Thank you to Tami and the NCEI leadership for providing financial support for this meeting.
- Tim Owen, NCEI Chief of Staff – Chief of Information Services, Mary Wohlgemuth is the New Director of NCEI. Thanks for coming back to Asheville for this meeting. Since the re-structuring, NCEI has focused on bringing together the thematic areas of NCDC and we need our partners in AASC, NWS, other federal partners and other agencies. New era in informatics is bringing together unstructured data and data from other sources, not just the typical "climate data".
- Glenn Kerr – AASC Executive Director: We count about 20 people staying over from the AMS Applied Climate meeting. Will start with some research reports, then moving to State Reports on how the State Climatologists deal with the climate challenges in their states. Asked for a head count on the brewery tour (need closed-toed shoes), and bowling. Minor league baseball has become a third activity for this evening. Thank you to Lou Vasquez our IT committee.
- We will start with five research presentations to begin the joint AMS-AASC portion of our meeting. After a break we will have four state reports that highlight recent activities of several of our State Climate Offices. The presentations will be available online at the AASC website.

1:45 pm – 3:00 pm **AASC Applied Climate Research Presentations**

1:45 pm – 2:00 pm *Changing of Return Interval Extreme Precipitation Events*
– Pao-Shin Chu (HI SC) –

2:00 pm – 2:15 pm *Improving the Hazard Mitigation Process*
– Nancy Selover (AZ SC)

AASC Business Meeting Minutes – June 28-30, 2017

- 2:15 pm – 2:30 pm *Intersection of Health & Climate* – Chip Konrad (Dir, SERCC)-
2:30 pm – 2:45 pm *Supporting Climate Adaption in the Carolinas* – Amanda Farris & Kirsten Lackstrom (CISA Climate Outreach Specialist) – Focusing on drought. Carolina Precipitation Patterns & Probabilities Atlas www.cisa.sc.edu/atlas Updating South Carolina's Drought Response Program.
- 2:45 pm – 3:00 pm *Anatomy of a General Education Meteorology Course Approval at a US University with no Meteorology Department* – Adnan Akyuz (ND SC)
- 3:30 pm – 4:50 pm **AASC State Climate Reports**
- 3:30 pm – 3:50 pm *State Climate Office Support for California & Nevada Flooding 2017*
– Mike Anderson (CA SC) & Stephanie McAfee (NV Asst SC) –
- 3:50 pm – 4:05 pm *Mississippi State Climate Report* – Mike Brown (MS SC) –Side note: Charlie Wax (former SC of MS) – had a kidney stone and has had triple bypass surgery but is now doing fine.
- 4:05 pm – 4:20 pm *New Jersey State Climate Report* – Dave Robinson (NJ SC) – What's Up at the ONJSC? Dave has been the SC 25 years.
- 4:20 pm – 4:35 pm *South Dakota State Climate Report* – Laura Edwards (SD SC) –
- 4:35 pm – 4:50 pm *Texas State Climate Report* – John Nielsen-Gammon (TX SC) –
- 4:50 pm – 5:00 pm **End of Day Closing Remarks** Glenn Kerr (AASC ED) Meet in Lobby at 6:00 for evening activities; meeting adjourns for the day –Thank you to Louisa and Will who have been helping us at the front desk with registration.
- 6:30 pm – 9:00 pm **AASC Evening Social Activities**; two options:

Dinner and Bowling at a fashionable West Asheville locale Bowling Sky Lanes Asheville, 1477 Patton Ave. (\$3/game, \$3/shoes); Bowlers can all ride together in a couple vehicles.

Highland Brewery Tour with gourmet Asheville food trucks Brewery Highland Brewery, 12 Charlotte Hwy. Meet at lobby at 6pm.
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Thursday, June 29th

- 8:30 am – 8:35 am Day Two Welcome – Glenn Kerr (AASC ED)
- 8:35 am – 10:00 am Opening Remarks – Hope Mizzell (AASC President) Showed a video of Nolan bowling in slow motion.
- Business Meeting Opens Called to order at: 8:40 am EDT**
- Quorum is 35 people. Have 47 members present, so quorum is met. We will miss Kelly and Jim O'Brien, and Matt Parker, President of AMS, who also passed away this year.
- Introduction of New State Climatologists – Kyle Imhoff –
Pennsylvania State Climatologist. Laura Edwards – South Dakota State Climatologist. Luigi

AASC Business Meeting Minutes – June 28-30, 2017

Romolo – Minnesota State Climatologist. Luis Bejarano – Puerto Rico State Climatologist is at Univ of PR at Mayaguez.

Nomination of new Associate Members – According to our Constitution, we need two SCs or RCC Directors to nominate someone for associate membership. Nancy Selover, as Secretary has been acting as the second nominator for associates. This was identified as a topic to be discussed later. The associate nominee list includes the primary nominator. Mary Knapp (KS) moved and John Nielsen-Gammon (TX) seconded that we accept the nominees for associate membership. The motion was approved unanimously. The nominees were: Frederic Emigh, Todd Caldwell, Stonie Cooper, Peter Goble, Christopher Redmond, Phillip Stratton, Robert Junod, and Dan McEvoy.

Nomination of new AASC Officers – Lesley-Ann, Nolan Doesken and Tim Brown, and Jim Angel as Nominating Committee recommended nominees for Secretary, President-Elect and ARSCO Director. Want to move to a more open process so people could self-nominate or express their interest in an office so the nominating committee would have a better idea of where to look for officers. Nominating Committee recommendations are: ARSCO Coordinator – Mike Anderson (CA -SC) has been serving in that role the past year. Secretary – Nancy Selover (AZ-SC) has volunteered to serve another term, and then we will open that to others to step forward if they are interested. President-Elect – Adnan Akyuz (ND-SC). Adnan promised not to raise the taxes. Nancy had nothing to say lest she have to put it in the notes. Mike Anderson had no comments. There were no nominations from the floor. Mary Knapp (KS) moved to accept the nominees, motion seconded by John Nielsen-Gammon. All 3 officers were approved unanimously.

Approve Minutes of 2016 Meeting – Nancy Selover (AASC Secretary) –Minutes of the 2016 Annual business meeting were e-mailed to all members for review over a week ago. No corrections were received. Mary Knapp moved, and John Nielsen-Gammon seconded to approve the minutes. Motion passed and minutes approved. They will be posted on the AASC website. This year we would like to get the minutes out within the next month while meeting is still fresh in our minds, then approve electronically so the minutes can be posted on the website to remind us what we discussed and planned to -do in the coming year.

Treasurer's Report – David Zierden (AASC Treasurer) – Reporting on 2016 Calendar Year Receivables: Dues \$4,880, Annual Meeting Reg and Banquet \$19,575.40, IMs \$47,500, Interest \$409,87, NCEI & NWS Subscriptions \$2,916.59. Total \$75,281.86. Expenditures: Dissertation Award (2 years because we were late awarding the 2015 money.) \$2,000, Refunds \$877.66, ED Travel (AMS Seattle and Wash. DC meetings & events) \$3,839.26, AASC Annual Meeting, meals, supplies \$20,723.16, Accounting services \$400, Legal Services \$275, PayPal Fees \$722.66, Rent/Moving Expenses - \$4,988.71, Payroll and Payroll Taxes for ED not delineated, (available on request); Total \$108,965.40. Deficit about \$32K. Balance Checking Arcade Credit Union: Share Draft Checking \$360.79, Royal Money Market acct \$121,409.87, Regular Share Savings \$7.43, PayPal Balance \$1,970.57. Total Assets \$123,748.66 Dec 31, 2016. Current balance through June 27, 2017 Share Draft checking \$35,762.09, Royal Money Market \$71,442.13, Regular Shares savings \$7.43, PayPal Balance \$23,636.22, Total Assets \$130,847.87. This amount will drop when we pay our annual meeting bills. The deficit for the calendar year is about \$32,000 – because we are paying an Executive Director, and this not a sustainable model for the long-term. There will be discussions later about raising money and appointing a finance committee. We have

AASC Business Meeting Minutes – June 28-30, 2017

7 Leader level Institutional Memberships (IMs)(SC,AL,KY,FL,DE,CO,NJ), and 6 at Associate level (MN,WA,MO,PA,TX,MRCC). RCCs are eligible to become IMs. We lost 2 IMs and gained 1 IM this last year. This year a question was raised to the Executive Committee about having a shared IM between IL-SC office and the MRCC. This issue will be discussed in this meeting. A question was asked about annual meetings being break-even or not. Most are close to breaking even, some lose a little and others gain a little. For this meeting we had financial support from NCEI as they had some funds they couldn't use any other way, so they paid much of the expenses of this meeting. That was in lieu of them being able to provide SCEP support or other SC support. It looks like this year there will be no out-of-pocket costs for this meeting.

IMs – some states have been very uncomfortable asking their administration for IM support. Nolan thought it was going to be easy to ask for and get his IM funding. He found it was not easy. Question for IMs - Are they getting this funding from their SCO internal funds, or getting it from their administration? Dave Robinson (NJ) said it was easy as his administration has a fund for that sort of stuff. We encourage you to ask, as the worst they can say is No. So, just ask. Nick Bond (WA) said it was tough as there is no overhead and it had to be internal funds. John Christy (AL) said it was internal funds, but their budget is very large, so it was not a hardship. Oklahoma was an IM, but the state has a huge deficit, so they had to drop the IM. Last year they had no out of state travel and also banned membership dues for any out of state association. The SCO is politically forbidden from many activities. Hope Mizzell (SC) said it took 5 visits to the administrator to get approval for the IM to jump from the Associate to Leader level. VA has had no success as the Dean just laughed at Jerry Stenger and walked away.

How much is appropriate or doable for meeting registration? \$250, \$275, \$300? Next year would like to perhaps have a sponsorship for the meeting to help lower the costs to us. In KS attendance is a function of both the registration plus the cost to get to the meeting. If it's cheap to get there, then the higher registration is not a problem, but if it's expensive to get there, then a high registration is out of line. Laura Edwards (SD) – agrees it's not so much the registration but the location if expensive to get there. Perhaps we can change the language of what we call the registration. Can we be flexible in what we call the registration fee, as some institutions have rules on paying for association dues, or registrations, but pay for other things. A question was asked about associate's voting rights. Associates do now get a vote on all but Constitution and By-Law matters.

Would like to move forward with a finance committee so we can be raising money from outside sources, not money from within. Perhaps an affiliate membership, pursuing foundation money or grants. We may be able to leverage the association to get grants or foundation money. Will be working to find several sources. It will continue to change as political winds change over time, but need to be diversified. You have to develop a relationship with a foundation and spend time to finally get some funding. Right now foundations are not spending money as everyone has turned to them. What are the IMs to the AASC – just funding sources? No, they are successful offices that have developed products and services and are often in a position to help lift up offices that need some help to develop their capacity. Members from several IMs have helped talk to Congress about Climate Science on Climate Science Day. Should we buy Powerball tickets? It might be

AASC Business Meeting Minutes – June 28-30, 2017

beneficial to have ED and some successful IM offices visit other SC offices that need help, and discuss what they can do and what they can be, meet with their Dean and talk about what they could become with some Administration support. The IMs are not sitting back looking for what the AASC can do for them, they are active on committees and helping move the entire AASC forward.

This week on Tuesday afternoon Hope Mizzell, Glenn Kerr and Nancy Selover met with Mike Tanner and Jeff Privette at NCEI to talk about moving our relationship with them forward. They are open to collaborating and increasing our work with them, and they would like to provide some funding. Have not settled on a specific mechanism or what would be expected for the funding yet, but have several possibilities. They would like to formalize our relationship.

HR353 Weather and Climate Act. When we visited DC for Science Day, we discussed this bill. We can't lobby, but we can advocate for Climate Science and what our capabilities are as SCOs. Dave Robinson met with 5 legislators from NJ, and the Chief of Staff for the House Science subcommittee. Has had some follow-ups from some of them. We didn't come with an "ask", but asked the Republicans to support a resolution, but they weren't monetary asks. It was useful and interesting. We should all establish relationships with our state's legislators at their regional or state offices. And our Universities generally already have relationships with the legislators and you can go through them to help you. Should we put the energy into the federal level or the state level? In AL, state has been more responsive as what the SCO does is more useful at the state level. NV says they need federal level money to come back to the state. You should have something prepared for them, a one pager or brochure to hand to them. AL sends out a monthly report to every state legislator that is very short and has an image that informs them of the weather that month in AL, and they know the office where the information comes from. Tell a story – what you can do and what you have done – what benefit the SCO has to the state.

10:30 am – 11:15 am **Business Meeting Continues**

Approval of Schedule of Member Benefits/Costs: We had discussed moving the membership benefits and costs to a separate document outside the Constitution so all members could vote on them and changing rates did not cause a constitutional or by-law change.. Currently SCs and RCCs full members are \$100/year; Associates \$40/year; and though a vote this past spring we added Student Associate Members at \$20/year (undergrad or grad, but no voting rights). SCO and RCC Institutional Membership Leader level (\$5,000/year) includes 1 full member and 5 Associates dues. Associate Level IM (\$2,500/year) includes 1 full member and 2 associate members' dues That is the current membership schedule. The membership committee wanted this dues rate schedule pulled out of the Constitution so the rates could be changed by the EC without a membership vote, depending on the market value of membership. The EC thought the rates would be voted on, but it would allow all members to vote, not just full members. Wasn't there discussion about a corporate membership? Yes, but it will be brought up by the membership committee in their report.

Presentation of AASC One-pager: It was a short turn-around document we needed for Congressional Climate Science Day. We did run it by the Policy Committee. It was only distributed in Washington DC to NJ, NC, and SC legislators and a couple of committees staffers. It will be re-visited and run past the entire membership.

AASC Business Meeting Minutes – June 28-30, 2017

Perhaps we can circulate documents like that on the Google Docs drive just for members? Want to post some of today's discussions on Google Docs or somewhere everyone can get to so we don't lose the momentum on these issues.

Review of AASC Constitutional Amendments – Glenn Kerr (AASC ED): Full members approved electronic voting at the 2016 meeting, to allow us to be more flexible in making changes, also allows all full members to vote, even if they couldn't attend the annual meeting, and allows more time to think about issues. We did several webinars to discuss all the issues before voting on them. Approved 5 amendments to the Constitution. The most current version is on line. Expanded voting rights to associate members on all matters except Constitution and By-Laws. Added Executive Director position to the Constitution. Prior to voting we did an audit of membership to see who was current on dues, and sent notices out to get late dues. Then determined the quorum by the total membership number. Made some small language changes including the address of our association office, updated our 501c3 status, pulled out the cost/benefit (dues) schedule, provided for having a separate cost/benefit schedule, and removed language naming specific standing committees, but left in language that the Executive Committee can establish or abolish standing committees. Changed quorum requirement to have a quorum for full member Constitutional issues and one for all other votes which include the larger membership. Quorums are 50% of full membership for Constitution & By-Law votes, and for total membership votes went with 30% so we could get a quorum, even when we grow larger. Added a student membership class with no voting rights. We don't have a process for nominating student members set out yet, but will be working on that. The first few votes had 72% of eligible voters participate, but the last one only had 52% of all eligible voters participate. The last vote was during spring break, so we learned a lesson there. Maybe some voter weariness. Not sure. Gave 5 business days – is that enough time, or need longer? Question - Should we have language about consideration time for amendments and how much time before a vote? We have that language for By-Law changes that require 30 days' notice for changes, but we don't have that for Constitution changes. When things are sent out in the morning people get them and respond quicker. If they go out later in the day, people don't see it. Tuesday mornings seem to be better. If you have multiple things to vote, you may think you already voted and not vote again. So Glenn did send out the items to be voted on all at once in groups. Fridays are a bad day for things to show up in the mailbox. These ideas will be incorporated into the next votes we conduct.

Annual Report – Glenn Kerr (AASC ED) **Committee work** – ARSCO Committee has been looking at the ARSCO process. There has been extensive work over the last year on the Membership Committee recommendations from the 2016 meeting. Value Proposition Committee recommendations were addressed this year, and more will be done coming up. – Monthly Newsletter (was created) increases community. Please send things along to Glenn that should be included in the newsletter. The newsletters will be posted on the website. Established Mesonet committee structure. Mesonet^{ty2}. There are a number of sub-committees and they will give a report later. AMS Annual Meeting in Seattle this past January – we had presence on the exhibit floor with the Asheville-Buncombe County and Collider group. Got recognition and exposure for AASC and met with a number of SCs. AMS sponsored Climate Science Day on Capitol Hill. AMS is in Austin next year and we will be there again. Consider doing an AASC session at AMS. Perhaps we can have a panel discussion at that meeting. AMS submissions are due at end of July. We can submit a bunch

AASC Business Meeting Minutes – June 28-30, 2017

of presentations to populate a session, but sessions have already been determined. HR 353 – contacted the bill's sponsors staffs to discuss the legislation and educate them on SC capabilities. Did a membership analysis. Have potential for 57 full members. Have 49 active paid-up in good standing. Some offices are not current, some are inactive, some vacant (TN, MA). Have 67 active Associates, out of a list of 233. Have 7 Leader level and 6 at Associate. Based on those numbers quorums are 25 for Full members issues and 35 for total membership issues. We are moving to the calendar year rather than a fiscal year. We are working with PayPal on invoicing for dues next January so payment is easy. Want the other inactive members to come back in, or give them the opportunity to pay up. Should we have them just pay current dues or also pay back dues? **Membership Committee proposed the following language for people who are not paying dues to pay up:**

MEMBERSHIP GRIEVANCES

1. Membership issues will be handled on a case-by-case basis, though the Executive Committee retains the right to work with the Membership Committee at any point to discuss exploring additional policies if warranted.
2. Dismissal, or removal, of membership from the organization will be based on the following grievances:
 - a. Failure to pay dues to the organization.
 - i. Members will be given notification once payment of their dues has been received or if their dues have been covered by any SCO Institutional Membership contributions.
 - ii. Members will receive notice if they have outstanding dues. If the member fails to pay annual dues or has overdue dues to the AASC:
 1. Member will be on a probationary period until all overdue dues are paid in full.
 2. If dues are not paid following the 1-year probation period, the member will lose membership to the organization and the following will be immediately revoked:
 - a. Voting rights – if applicable
 - b. Membership to the AASC list-serve resource
 3. To become a member of the organization again, they would have to be re-nominated by a current member and be voted upon by the organization.

Want to get dues payment available on the website, but make sure it is only available to the members, not just someone who gets to the website. Will work it out with Lou. Legacy list of 345 members. Includes NCEI and NWS subscription people that those organizations pay for (about 60 people total). Less than 10% were already associate members, and most of those have remained as members with their own dues payment. Want to trim the list-serve down to members after our audit and requests for dues.

Proposals for hosting 2019 AASC Annual Meeting: Mike Anderson (CA) and Nina Oakley (WRCC) are proposing to host in California – looking at Santa Barbara, (easy access from LAX, with hourly shuttles). John Christy (AL), asked if they could co-host a meeting somewhere else since no one wants to come to Alabama in July? Sure, we welcome co-hosts. Some states have travel bans reciprocating CA's travel bans. Membership present voted unanimously to go to California in 2019.

11:15 am – 12:00 pm Committee Reports and Discussion

11:15 am – 11:30 am ARSCO Committee – Mike Anderson (CA) – Glenn (ex-officio), Tami Houston (NCEI), Dave Robinson (NJ), Nolan Doesken (CO), Stephanie McAfee (NV), Karin Bumbaco (WA), Mark Shafer (OK). Had four meetings and lots of e-mails. Discussed

AASC Business Meeting Minutes – June 28-30, 2017

designation of desired level of performance of a State Climate Office. Goal is to have as many offices sustain the highest level possible. ARSCO designees have opportunity to leverage their experience and activities to help other offices. Successful ARSCO program will facilitate office transitions without the loss of performance and help sustain the AASC. Evaluate State MOUs and work to get all of them up to date. Motivate the development of materials to help develop SCOs (could be one pagers). Keep annual reporting as an ARSCO requirement. Conduct periodic program reviews to ensure sustained performance. That will require a group of people to do the reviews and evaluations. State MOUs have been signed between SCO and NCEI since late 1990s. Each MOU contains different levels of information. This has been an iterative process over the years. We should have some legal standing on this. Five states have no MOU on file. 15 states have a different SC than named on the MOU. Only 5 states have signed an MOU since 2010. As the ARSCO Committee develops a process, we are cognizant of the political issues that some offices may have. We have formalized the Committee Chair on the EC. Continue to coordinate the MOU status updates. Develop Program Review Methods (may need to augment committee membership). Develop program development material concept further. Who do we need to recognize us? With the NCEI reorganization, we think the NCEI Director should be the signee, and within the AASC – don't know if it should be the AASC President or ED. We finally got the AASC President to be a signatory on that. Welcome any help from Dave Robinson as he was ARSCO Chair for a long time. Is NCEI still interested in this? Yes, they are. Mike Tanner Director for Climate and Weather Center thinks it should be the NCEI Director as it is a higher level of recognition than his level. Not a lot of language in the MOUs. The ARSCO status is indicated if an office is an ARSCO but there are also MOUs for SCOs that are not ARSCO. The ARSCO MOU is the only thing that keeps the SCO at UVA. Does it have to be changed if nothing has changed in the office? No. Just take a look and if all is still good, then nothing further is needed. Should there be successor language in the document? Will think about this. Next steps – if you have thoughts or comments, contact Mike or another member of the committee, or if you are interested in being on the committee, let the Executive Committee know.

11:30 am – 11:45 am ED Responsibilities Committee – Dave Robinson (NJ) Chair: We developed a formal procedure to evaluate our ED, Committee included Hope Mizzell, Nancy Selover, Dan Leathers, Dave Robinson, and Marjorie McGuirk. Glenn submitted an annual report in response to written questions by the committee. The committee discussed/evaluated his report and Dave and Hope then discussed the evaluation with Glenn. This year went well as Glenn got up to speed on what are about, became familiar with a large number of SC Offices and he was involved in this annual meeting more than we anticipated. He has developed good relationships here in Asheville, and was given direction on where to go from here.

Business Meeting Suspended until after lunch.

12:00 pm – 2:00 pm **AASC Annual Awards Luncheon**

Guest Speaker: George Briggs, Executive Director, Western North Carolina Arboretum

2:00 pm – 2:20 pm **AASC Member Memorials**

2:00 pm – 2:10 pm Jim O'Brien – David Zierden (FL) & Melissa Griffin (KY). Jim joined AASAC and became SC in 1998. Believed in Climate Science Communication. Started the SE Climate Consortium. First AASC meeting was in Charleston, SC Called it the "State

AASC Business Meeting Minutes – June 28-30, 2017

Climatologist's annual picnic". This was his favorite meeting of the year, and made sure he could always attend. Jim made his mark with El Niño developing a model to forecast the event. Then studied the impacts of ENSO on weather and climate in the US. He always felt his biggest achievement was mentoring including 6 MAs, 45 PhDs, and 20 post-docs. Was a mentor to Melissa as an undergrad and afterward. Never held office, but was a leader in the association and energized us. Was never afraid to voice opposition or challenge us to be better. Enforced Robert's Rules of Order. Cherished family and friends and fishing and was fiercely loyal to his friends. Showed Melissa how to fish on the Coeur d'Alene trip. Was proud of his Irish heritage and spent time in the Irish Pubs. Since George Taylor and Jim left, we are no longer musical. Believed "Life is about friends". Enjoyed his time with this group. Jim did not suffer fools.

2:10 pm – 2:20 pm Kelly Redmond – Nolan Doesken (CO SC) – Nolan was honored to be part of the memorial conference in Reno. Kelly loved to attend conferences. Loved the mountains and being out in the field. Drove the backroads to get to meetings, learning along the way. Nolan first visited Kelly's office in Oregon in 1984, though Kelly became SC in OR in 1982 or so. Kelly hosted the Mount Hood AASC meeting in 1988 at Timberline Lodge. Shared a passion for climate data quality and continuity including 1980s at NCDC work with their first generation automated QC procedures. The procedure always threw out western data as outliers. Nolan and Kelly had long phone calls about climate or data or storms. Then long e-mails. He was a great listener. He did amazing presentations. He could go through 80 slides in 15 minutes. He made the most of every meeting he went to, at the meeting, getting there and getting home. Was attending meetings right up to the last. Kelly was very cool to CoCoRaHS initially, but finally he signed up and reported for 3 years, every day when he was in Reno (about 150 days a year). Was a sceptic for a long time about Climate Change, but finally changed his mind. John Young (WI) first knew Kelly when he was a graduate student at Wisconsin. Kelly avoided the Dynamics course. John got to know him much better when he started attending AASC meetings as SC. Then found out they had a shared interest in Chaos Theory, and spent a couple nights talking in Santa Fe.

11:45 am – 12:00 pm Membership Committee – Adnan Akyuz (ND): Melissa Griffin (KY), Stephanie McAfee (NV), Monica Mattox ([OK](#)), Laura Edwards (SD), Ryan Boyles (SECSC), "Are our current membership categories working? Accomplishments – Modifying the Associates Membership Structure. Any person who subscribes to the Constitution and By-Laws of the Association shall be eligible for Associate membership upon nomination of one member (currently requires two). Removal of fee structure from Constitution to an external document for the EC to decide – but will still have a vote on new dues because the EC thinks all members should have a vote on dues. Added student members. Also added a Subscription service member – should that be an official membership category? No, it should not. Federal agencies cannot pay dues They just want to have access to the list-serv, so this is not a membership. They have no voice or vote, just access to the list-serv. Committee suggests adding Institutional Affiliate Level – Diamond, Gold, Silver, Bronze. Have some recommendations for the pricing of those levels. Would like to also recommend increase in Associate member dues. Committee wants to institute a Membership Grievance procedure for dues payment. In the past, if a member does not pay, we have done nothing. So want to handle membership issues on a case-by-case basis. If they fail to pay dues, the EC should communicate with the member to pay up. If they do not pay, they would be on a

AASC Business Meeting Minutes – June 28-30, 2017

probationary period for 1 year, then we remove them from the list-serv if they still do not pay. Then if they want to reestablish membership they have to be nominated. If it is an ARSCO SC in arrears, they would have to go through the ARSCO committee.

Elected Officers: President, President-Elect, Secretary, Treasurer, ARSCO. – designated to be full members currently. Ex officio advisory members NWS, NCEI, NRCS (we don't have one currently), and ED and propose to add an Associate member at large – dedicated spot for an associate member. Either elected by full membership or by the Associate members. Need to formalize the Committee Format – how to rotate committee members to get new ideas and new blood rather than keeping same people all the time. Change 50% of the committee at one time, rotation of members to take advantage of new ideas. The other partner ex-officio as NRCS was chosen because the representative was Jan Curtis who had been an SC in Wyoming. The agency does not have to be NRCS. Could be USDA, DOI, or some other agency. Think carefully about how you want to structure it. How many partners do you want to bring in? Member-at-large won't have a vote on the EC as it is ex-officio, but they can raise the concerns of the associate members on issues the EC considers. Fiona represents the NWS but does not have a problem with having no vote on what the AASC Executive Committee decides. Question about having the Associate members select their own representative, or the EC select someone. Prefer a voted person rather than selected, but it can be elected by all the members. The NCEI and NWS representatives (liaisons) are selected by their agency – but they are liaisons. Grievance procedures could be expanded to include other issues besides dues payment.

EC will talk about these issues and come back tomorrow to see if we want to proceed with a vote and do it then. Also it will give people a chance to discuss further offline. Institutional affiliate dues ideas were: Diamond \$50K, Gold \$25K, Silver \$10K, Bronze \$2K that would include list serv, and dues for 3 associates, and ??? voting rights??? Business meeting suspended until Friday.

2:20 pm – 3:00 pm **Climate Monitoring**

2:20 pm – 2:45 pm *Drought Monitoring* – Mark Svoboda (Dir, NDMC) –

2:45 pm – 3:00 pm *Delaware Real-time Snow Monitoring Network: Lessons Learned*
– Kevin Brinson (DE Asst SC).

3:00 pm – 3:20 pm **Break**

3:20 pm – 3:30 pm CoCoRaHS Update (Henry Reges, Pgm US Nat'l Coordinator)

3:30 pm – 4:00 pm **Committee Reports and Discussion**

3:30 pm – 3:45 pm Mesonet Committee – Stu Foster (KY) – Not attending

3:45 pm – 4:00 pm Mesonet Functional Standards and Practices Subcommittee –
Rezaul Mahmood (KY) Jeff Andresen, Nathan Edwards, and
Kevin Brinson also on sub-committee.

4:00 pm – 4:15 pm Campbell Scientific Presentation – Garrett Wheeler –

4:15 pm – 4:45 pm **State Climate Reports**

4:15 pm – 4:30 pm Alabama State Climate Report – John Christie (AL) –

4:30 pm – 4:45 pm Wisconsin State Climate Report – John Young (WI SC) –

4:45 pm – 5:10 pm Maine State Climate Report – Julia Simonson (ME Asst SC)

AASC Business Meeting Minutes – June 28-30, 2017

5:17 - 5:45 pm COOP Program Update and Way Ahead – Frank McMenimen (NWS, COOP Pgm Mgr) COOP is the climate record of the US with a high level of accuracy. Accumulation of weather data that is combined into a central record to create the climate record and a record of how and where the records are collected. Mission is continuity and preservation of the climate record. Not real-time. It's what happened yesterday. Components are People – observers, individuals, institutional and government sites. WxCODER III, IV ROCS, Station information system (SIS) with metadata. Have a SIS database development contract. SIS hardware integration to NOAA systems contract. NCEI information, Regional Climate Centers, National Reconditioning Center (testing - repairing), Sterling Field Support Center (testing), Warehouse and distribution Center (Kansas). Issues – Personnel – not enough people inside NOAA, inadequately trained personnel, inadequate guidance or time allocation to do the job – Personnel told by some managers “don't bother with COOP” or “do it if you get the chance”. There is inadequate preparation/equipment to perform field tasks. Vehicles vary from trip to trip (GSA, field office vehicle pool) – may not have the vehicle you need to carry the equipment you need for the site visit. Inadequate funding to perform all tasks. Funding sufficient to handle the contracts they have, not sufficient funds to do much else, like buy supplies or provide services. There are Cyber threats to the SIS. In March, they had an intrusion from China where they were just playing. System was taken off line. Back-up server was not affected and no outbound data was sent. Security upgrades, rebuilding of production platform due to be completed in August 2017. There is no career path in COOP. There are impacts to not having personnel and stations not being maintained, equipment failures, observers not being contacted, SIS databases not up-to-date, review of one region showed that of the nearly 3000 active stations, 85% have not had the annual updated, and 65% have not been updated in 2 years or more, so those who use the data can call into question the reliability and validity of the data. SIS contains 78 main metadata fields. Some like lat, long, site address, elevation, equipment on site, date of last inspection, etc. Some auto-execute to other programs that require additional data input and can expand to over 1200 fields, so people stop updating or stop using SIS. What is coming?

COOP must change the way they gather and update the data and metadata. Timing is correct to restructure the COOP organization. All options are on the table. Alignment of OPL under Observation Management; filling all 23 vacant OPL positions; increase visibility and control of COOP funds (including travel) at national level. Follow the existing process for the establishment of new stations. New operations/processes for through the Change Control Board. Rapid action team to bring SIS to an accurate new baseline. Develop an additional database in the SIS to hold all station information from unofficial sites, hold information from other NWS programs. Development of wireless MMTS intended to expedite initial and replacement installations – more accurate readings and observer does not have to brave the elements for a reading. Could be installed without trenching and could immediately replace MMTS devices at locations that a wire system would be impossible or cost prohibitive to install (i.e. river and dam sites) Future actions– provide WFO dedicated maintenance vehicle capable of handling all the COOP equipment. Eventual shift to automation for data collection. Individual observer shift will be very gradual (through attrition). Issues include No fee lease – not authorized. Minimum lease per site is \$15K/year. Possible title change for observers. Coverage area that does not fit into automation ability Corporate and government sites can be transitioned faster.

AASC Business Meeting Minutes – June 28-30, 2017

Development of automated system (CoCoRaHS is working on an automated system). All these steps will need everyone to decide how we want this to work. Wants input from us. The resources – Frank wants this to continue and will make a presentation to upper management of what is needed to make COOP work into the future. Have 8 levels of encryption on the way into the system but not sure what security is on the NCEI side. Mike Palecki says they are as secure as they can be. Dave Robinson – has been involved in COOP evaluation for 30 years. What makes this program change different - as we have heard this multiple times before. Frank believes the upper management actually mean they will fix the COOP program this time. If you go the automated basis and maintain 8000 stations that's \$120 M dollars. Yes if you have ASOS type system, but this is simpler equipment. Can we just have a good wireless MMTS now?– Yes, it will be a good one, that should be ready next year. One option is to put the MMTS at the MesoNet sites. Is the 25 mile grid the best way to determine sites and how many stations? Continue the discussion offline.

5:45 pm **Closing remarks – Adjourn meeting for the day** Glenn Kerr (AASC ED)

6:30 pm – 9:00 pm **AASC Annual Banquet** at the Crowne Plaza Pavilion ~~Group photo between 6:30 and 7pm. Tomorrow we will be at the Collider. Meet outside the lobby to catch trollies at 7:30 and 7:45am. Parking at Rankin Ave Parking Garage or Wall Street Parking garage on Otis Ave, behind NCEI. Grayline Trolley at end of day runs until about 6:45 pm to return to Crowne Plaza.~~

Keynote Speaker: Glen Conner, Kentucky State Climatologist Emeritus

All Friday sessions take place at The Collider, 1 Haywood St, Asheville

Friday, June 30th

8:30 am – 8:35 am Day Three Welcome – Glenn Kerr (AASC ED) Hope Mizzell made some closing remarks since some of us will be leaving during the day. She was inspired by the legacy of Kelly Redmond, Jim O'Brien, and Glen Conner. We need to carry their legacy forward. The EC meets on the second Tuesday of the month – by phone. Put a note on your phone for the second Tuesday of the month to “check on the AASC”. Ask yourself, do I serve on a committee, should I serve on a committee, is there something I want to contribute, is there something I can do to help the organization? We will have some more time today to talk about committees as we still need help.

8:35 am – 10:00 am **Partner Update and Climate Community Presentations**

8:35 – 8:45 am Presentation on The Collider – James McMahon (Collider CEO) ~~Collider is trying to close the gap between science and data and the billions of dollars of business decisions made every day. Want the business decisions to be incorporating the science & data. Asheville is a uniquely interesting place to do this work. In 1952 the weather/climate records were stored at NCDC down the street. Other climate related activity came here because the data were here. Collider is a non-profit group intended to be a catalyst for climate solutions. There are co-working spaces for people to work and interact with others. There are public meetings and private conferences. Members, like Case Consulting, conduct continuing education classes to provide climate education to industry – various sectors who need to know how climate affects their industry. People or businesses can become members, even if they are not located in Asheville. They can link to streaming video of~~

AASC Business Meeting Minutes – June 28-30, 2017

~~events here and gain access to contact lists. Some of the members are creating mapping products and other products and services. In 2018 Collider is doing a global business Climate Conference CLIMATECoN on March 19-23. Visit “theCollider.org” to get the newsletter. Collider could leverage the AASC to the corporate sector to make connections. Megan Robinson will be the new Director. Starting July 1, 2017 (tomorrow)~~

8:45 am – 9:00 am NWS Update – Fiona Horsfall (AASC NWS Liaison) – ~~Jim and Kelly were both friends and mentors for Fiona. Fiona started as an oceanographer and Jim lectured at University of Miami. NWS Climate Services delivers climate information for response, preparedness, and resilience on seasonal and sub-seasonal timescales. Internal NWS Process – need/request from a user or NWS staff. New products and services or updates to old products are evaluated and developed based on user needs. Presentation covered NWS Climate Services mission, strategies and procedures in detail, and will be posted on the AASC website with the other presentations. In response to HR 353, NWS will document user and partner needs for products and services for 1-2 years’ timescale. NWS is responsible for forecasts out to 1 year. Are planning to reconfigure local office climate service model to shift to a sub-regional Service Climatologist. Have currently mandated ½ FTE employee for each office in climate services. Their responsibility may be working with us, or working with customers. It is not intended to do the job of SCs. CPASW in 2018 will be held in Fargo, ND in 2018 tentatively the week of May 21 – the week after the WERA meeting. For topics they are thinking about drought and flood and the EM community, Ag, Energy and Business solutions. For 2017 they had over 130 people in Anchorage.~~

~~Marina Timofeyeva – International activities – WMO Tools – www.wmo.int/cst CST Web Portal Climate Services Information System Climate Services Toolkit. Please use it, and if you have anything to contribute that is welcome. Please provide feedback. GFCS Help Desk has case studies of climate services demonstrations and operations for five GFCS priority sectors. Best practices for climate communication. Tools to engage partners and users.~~

9:00 am – 9:15 am Climate Prediction Center Presentation – Dave DeWitt (Dir, CPC) ~~Focusing on Week 2 out to one year, or two years. Now looking at 2 weeks to seasonal, Mid-range Outlook (2 wk to 1 month) Goal is improved forecasts on timescales from week two thru one month. Modeling component to accelerate development of unified coupled model for timescales week 2 through one month. Next generation Climate Reanalysis is in the works. Has 4 times the resolution and does not use satellite data. Aim to complete by 2019 and run the old version in parallel until 2020 or 2021. Evolving the CPC Products Suite – are looking to collaborate with social scientists to evolve static maps into interactive maps that meet stakeholder’s needs. Full presentation will be posted on the AASC website.~~

9:15 am – 9:25 am SE Climate Science Center Update – Ryan Boyles (Dep Dir, CSC) ~~Moved to the dark side. But does get an opportunity to work with some of us occasionally. They are re-named as Climate Adaptation Science Centers. Interior Mission – focusses on science to support climate adaptation of natural lands, plants, fish, wildlife and cultural resources. Is a form of climate extension work Trying to improve and refine how climate projections are made. Moving toward decision science to support climate smart adaptation. CASCs got \$25M congressional appropriation line item, has less than 40 federal FTE staff. Most funding~~

AASC Business Meeting Minutes – June 28-30, 2017

~~goes to support science projects by university, federal researchers. RFPs and directed projects (all peer reviewed) Opportunity for AASC. We fund science to support conservation management needs. Exposure, impacts, adaptation planning and decisions. Engagement with state fish and wildlife agencies. Engagement with interior bureaus, F & G Wildlife, NPS, USGS. BoR, BLM, BIA.~~

9:25 am – 9:35 am USDA Climate Hubs Update – Dennis Todey (Dir, USDA Midwest Climate Hub) ~~Deal with managed lands – mostly agriculture. There are 10 hubs including a CA hub in Davis, CA which was originally a sub-hub. Regional Hubs are providing Information and Tools to Decision Makers to build Resilience to climate variability.) Five are administered by Ag Research Service ARS, and the other five hubs are administered by Forest Service. A director, a coordinator and a post-doc is the staffing model. We help ag deal with climate adaptation, tool development and decision making. Synthesis – vulnerability assessments, climate impact reporting. Research – soil/water management practices, invasive species. Information delivery – regional publications, webinars, and cooperative educational efforts. Partners – SCs, RCCs, NOAA, NWS, NIDIS, NDMC, ISDA, RISAs, CASCs, LCCs, and more. Have done vulnerability assessments, talks at meetings workshops, etc. Hubs can be a resource for SCs and vice versa. Regionalization help on ag issues, coordinate efforts during major events, connecting ag-climate issues and USDA. Easier to work through land grant institutions, but need to connect to others.~~

9:35 am – 9:50 am CICS Presentation – Ken Kunkel (CICS) Cooperative Institute for Climate and Satellites.

9:50 am – 10:05 am NEMAC Presentation –

10:05 am – 10:30 am **Break**

10:30 am – 10:45 am National Centers for Environmental Information

– Mike Tanner (Dir, CWC) Jeff Privette Deputy Director – Center for Weather & Climate presenting. Full presentation will be posted on the AASC website. ~~Moving from observatory based data management to thematic product areas data management, using a matrix approach like “near-surface air properties over land”. Are getting analytics about their users – who is coming into the site, what sectors, and what products are they going to? Working with Acclimatize to survey their user communities to understand the value of the products. Munich RE saved about \$60B by using the NOAA climate data archive to determine whether claimants had a reasonable claim or not. Retailers like Footlocker get a heat map of the country’s heating or cooling trend for the year to anticipate the energy bills they will receive from their stores across the country so they can estimate their costs and use/invest their money effectively. Integrating weather and ag data to forecast when fertilizer is required, and how much, to prevent over fertilizing and prevent nitrogen flushing into water supply. RCSDs have been working with tribes and others, Western and Southern RCSDs are vacant right now. RCCs are active. The Billion Dollar Disaster Database is now searchable by state and hazard. Monitoring now includes trends. HPD is now digital. Extreme snow products. NCEI is increasingly engaging with partners and stakeholders to inform its portfolio management. Actively prioritizing its products and services to best meet user needs, and interpretive reports and assessments activities have grown, now sustained rather than surged.~~

10:45 am – 11:45 am **AASC Partners Panel Discussion: Opportunities and the Fiscal Environment**

AASC Business Meeting Minutes – June 28-30, 2017

Moderated by Kevin Brinson, DE Assistant SC Jeff Privette, Beth Hall (RCC), Fiona Horsfall, Dennis Today, and Ryan Boyles. Proposed budget cuts – has there been any thought given to how budget cuts will affect your services? Not at NWS – we continue to plan until we hear more. RCCs have heard of an 80% budget cut, which would essentially eliminate the RCCs – as a drop down to one person staffing is untenable. All the staff are on layoff notices, and waiting to find out what will occur in Congress. If you value the RCCs, let everyone know so they can justify their existence. Hubs are not a line item in the budget, but are embedded in ARS and Forest Service. There are some drafts of what that might look like, but no change in plans. CSCs same no change. NCEI – this is not new. Their budget has been cut before and threatened before. Budget has been shrinking for a long time. Trying to be more creative in how they do things to be more efficient.

What are the SCOs bringing to the table for these partners? Perceived value of AASC offices? SCOs have potential value to CSCs but have not had relationships in the past, could be valuable. A lot of planning happens at the state level, but the implementation is very local. For USDA Hubs they are very valuable. Each state SCO has to value itself as they provide value to their state. NWS places a high value on the SCOs. The CPASW is very dependent on the SCOs as partners. There is a ½ FTE climate person in each NWS office, but they can't do what the SCOs can do in terms of personal engagement. In the east, snowstorms overwhelm NWS offices, but NJ and Dave Robinson take over on providing the information for the public. If they could fund us to do our job, they would. NWS sends people to us. RCCs are supposed to get NOAA data out into people's hands, but in many cases can't do that without the SCOs. The SCOs don't have an agenda for their own profit, so we are trusted arbiters from a contract perspective. Depend on us to provide input on what tools we and our stakeholders need. NCEI – watches our list-serv to see what we need and what our problems are and we have helped prioritize NCEI's products – let them know what's useful and what's not. Would like to build a more formal and sustainable relationship with AASC new leadership and NCEI new leadership. Opened up to questions from the SCOs. Sub-regional service climatologists – HR 353 – do you see that as a way to augment the Service Climatologist position? Forecasters reach out to SCs. The Service Climatologist will replace the Climate Services Focal Point. This proposal is to improve efficiency and help in offices where currently nothing is being done. The Service Climatologist position is not related to the Forecast Communication person in the HR 353 bill. SCEP program benefitted Nolan coming to NCDC or CPC as the program benefitted did many SCs in the past. The program didn't pay salaries, just paid travel to get us there. Can this come back? This is a budget issue, so NOAA can't pay for travel, but if you have your own budget for travel, NWS will arrange for you to visit the offices and meet the people you want to meet. NCEI wants to have some form of SCEP back up and going again. CSC wants some sort of forum to get physical scientists in the same room as the social scientists and resource managers. For private sectors, a useful time step is weekly Are you looking at any weekly products, particularly forecasts? Weekly time step data sets. No. Mike Brewer has heard that request from drought and water resources community, but it is a capacity issue to give you the daily units to roll it into weekly or whatever you need. How do you convey uncertainty – and is there a standard for that? Social Scientists can help you deal with uncertainty because social scientist deal with understanding how and why people make decisions. The use of uncertainty is entire based on how people make decisions. NWS – has a big effort to engage social scientists for decision making information. Where does data

AASC Business Meeting Minutes – June 28-30, 2017

quality come into this enterprise, and who are we relying on to provide the data quality? QA/QC is a huge part of NCEI's work, along with the RCCs. Also continuously try to preach the appropriate use of the data. People assume the same precision and accuracy for historical data as the current data and the projected future data, because they get all the data from the same trusted source. NWS collects the data as best they can, and relies on NCEI and ACIS at RCCs to QC it.

11:45 am – 12:00 pm *HR 353 – AASC Way Ahead & Discussion* – Glenn Kerr (AASC ED) – HR 353 – Forecast Communication Coordinator – that essentially is a State Climatologist, and they didn't want to use that terminology in this political climate. Got this information from the bill sponsor, The position should serve as a liaison among NOAA, other federal depts. and agencies in the weather enterprise, the state, and relevant interests within that State. Receive the forecasts and information under subsection c and disseminate the forecasts and information throughout the State, including to county and tribal governments. For each state the Undersecretary MAY provide funds to support an individual in that state to serve as a FCC and require matching funds of at least 50 percent, from the State, a University, an NGO, a trade association, or the private sector. Assistance to an individual State under this subsection shall not exceed \$100,000 in a fiscal year. "Authorization of appropriations – for each of fiscal years 2017 and 2018, there are authorized out of funds appropriated to the NWS, \$26.5M to carry out the activities of this section. In the webinar we asked, "Do SCs want to do this?" - generally we did. Most offices have the capacity, and how do we help SCs that don't have the capacity and how do we cover gaps? We assume we will be stronger together than separately, so AASC should act as the central focal point. Provided the consensus is to pursue designation of SCs as FCCs – develop our story SCs are uniquely positioned to serve as FCCs. SCs already perform some/all the functions of FCC requirements. How funding could benefit SC's capabilities. Socialize the concept within DOC – letter to Under Secretary. Seek support within NWS. Educate Congressmen on SC's capabilities. The money would have to go to the state at some point along the line but could it go through the association(?). Depending on what agency the money goes through, if it's viewed as communicating a weather forecast, you would be on-call 24 hours in an event. It's also possible that we could have the money flow through us and directly to SCOs without going through the state proper. If an SCO is not able to do that – because of their agency being in a DNR or DWR, could a separate entity do it? Perhaps the matching funds requirement might prevent that. Are there restrictions on the matching – does it have to be non-federal money to match? Can't be federal money to match. Looking to find out if there is consensus to pursue this and if so, what should be the mechanism or approach to do this.? This will become a contract for services. If we are taking money from NWS, is it going to cost us some other way? Don't worry about that because we don't control where they take the money from, but better they give it to us than to someone else. What capacity can we do if we get this funding? We need to continue the discussion so we are ready to go next spring.

12:00 pm – 2:00 pm **RCC Regions Breakout Luncheons** – at several local restaurants.

2:00 pm – 2:15 pm AASC Dissertation Award Winner Presentation – Ashton Robinson-Cook Seasonal Tornado Forecasting. Full presentation will be posted to the AASC website.

2:50 pm – 3:20 pm **Finish Discussions from the Business Meeting**

AASC Business Meeting Minutes – June 28-30, 2017

More discussion of committees and EC, but we don't have a quorum, so we can't vote. Will have webinar discussion about having a 2nd member make associate nominations. Dues raising to \$80 or some other amount from \$40. \$80 seems high as it doubles the current amount and the SC dues are \$100. Already heard from several that if it jumped to \$80 they would drop out. Perhaps an increase to \$50 should be considered. And third issue was to add an associate member at large to EC as ex-officio and discuss how to select/elect that person. Another idea is to add an Associate member to the nominating committee to participate there. Or, have a full member on the EC who is charged with representing the Associates at the EC level. What will they bring to the table each month? Associate member perspective. To this point no Associate member has ever contacted the EC to voice a concern. Associates are eligible to be on committees, and many of them are, so they can engage there. This would allow them to engage at multiple levels. EC, Nominating committee, other committees. The current ex-officio members are associates, but they are representing their agencies. Growth is going to come from Associates, not from SCs. It is a way to get broader participation. Raising dues – we will discuss on a webinar. Also for a webinar, idea of standing committees vs ad hoc and length of term on committees. Some want to rotate out so others can rotate on. Planning Committee for next year's meeting (want to add more discussion time in the meeting) and forming a Finance Committee.

3:30 pm – 3:40 pm AMS Climate CCC Initiative Update – John Nielsen-Gammon (TX SC) – AMS CCM – Certified Consulting Climatologist. Should AMS do anything, and if so, what should they do? Current mechanism for certification involves an examination, but they don't certify specializations. Were there members who wanted to be certified, and is there enough demand for this? Not many members were looking for this certification, and not many companies were found that cared about this certification. Recommendations are to make sure CCM revision duly incorporates climate change information. Publicize CCM as an expertise clearinghouse. Monitor member demand for climate change specialization within CCM. The majority of people who try to get CCMs are air quality people. Are undergoing a revision of the test questions this year. If we want to fill a session at the AMS annual meeting in Austin next January 7-11. Call for papers already out, but there are 30 different symposia – 13th on societal applications – would include communicating weather and climate info, risks and uncertainty, research and applications, individual responses to extreme weather. Other symposium is Major Weather Impacts of 2017 – events. So, put AASC Logo on your first slide, and 2nd slide your SCO overview. End of July is submission deadline. Can contact program chairs.

3:40 pm – 4:00 pm 14th Weather Squadron Climate Support to DoD – Robb Randall (USAF) – 557th Weather Wing. Presentation will be posted on AASC website.

4:00 pm – 4:05 pm AASC – CASE Project – Doug Copenhaver (CASE Consultants) – ~~All the essays we wrote were put into the report. Atlanta, Chicago, Columbus, Denver, Lake Tahoe, Lexington, Newark, OK City, Pittsburgh, Raleigh Rapid City Salt Lake City, Seattle. This model worked, as the Highway Department contracted with Cases, and she contracted with us for our individual expertise and she put it into a specific report. FHA paid Case and Case paid AASC. Nolan assigned his as student project. Went well for everyone.~~

AASC Business Meeting Minutes – June 28-30, 2017

4:05 pm – 4:15 pm 2018 Annual Meeting Information – Martha Shulski (NE) - Martha had to leave, but left her slides. We are looking at June 19 (Wed)-22 (Fri) noon at Nebraska City, NE, Lied Lodge for the 2018 AASC Annual Meeting. ~~Can fly in to Omaha or KC, Mo. Facility is a 14,000 sq ft space. 140 total rooms, dining room serves breakfast, lunch and dinner. Has a bowling alley and brewery. Rooms are about \$113/night for single and \$123 for double occupancy. \$30 for shuttle services. Has the full meeting package. Do we want a planning committee, as it should improve the planning to get more ideas into the agenda. Will send out a survey about this meeting to find out what worked and what didn't and what should we have included? College World Series will be going on in Omaha during this time.~~

3:05 pm – 3:20 pm South Carolina State Climate Report – Hope Mizzell (SC SC)

4:15 pm – 4:30 pm **President Closing Remarks** – Hope Mizzell (SC) Thanks to the EC for the time they devote at the AASC and Nancy – thank you for the notes. Thank you to Glenn and Tami as well for your efforts in planning this meeting. Have a safe trip home. Next year we will have a drawing for a free registration and dues to encourage people to stay until the end.

4:12 pm **2017 Annual Meeting Adjourns at 4:12 pm EDT**