

Minutes of National Association of Rocketry Board of Trustees Meeting

President Ted Cochran called the meeting to order at 7:30 pm Thursday, July 24, 2014

All board members were present (Ha, Coleman, Cochran, Huegele, Guzik, Lyngdal, Hochheimer, Wise) except for Randy Gilbert. Randy Boadway and O. Lee James were also present

Member needs and concerns

The board discussed a proposal from a club in Utah to purchase about 25,000 pages worth of rocketry plans, kit instructions, etc. from as early as 1961. They have volunteers available to scan them and make them available to NAR members. They would like \$2500 to pay the owners for this material, and to use NAR 501c3 nonprofit status to collect donations, and send 'perks' to donors, and give the material to the NAR once scanned. The board did not take action on this request. John H. noted that we need to consider these requests carefully so as not to jeopardize our 501c3 status which is for education.

The board also received a question about whether a junior membership had to be purchased by a parent or legal guardian, or if it could be by an adult mentor. Ted is going to contact the NAR member to inform them that there is no issue with an adult NAR member sponsoring a junior membership for an unrelated child, and that this child would be covered by NAR insurance. It is also fine for several siblings to have a 'family' membership so that it is less expensive, if they reside at the same address.

The board also discussed a letter from Blake Nikolic of the Australian Model Rocket Society. Blake will visit with the board July 25 at 8:30 am.

Membership Committee

Ted noted that the membership committee chair position is currently vacant, and a volunteer is needed.

Ted reviewed membership charts and statistics. Ted expected that there would be pattern of peak membership in spring and drop off in summer, but that hasn't happened in two out of the last four years. Peak membership has actually reached 5800, but it is not consistently above 5800. Ted also commented on data that Trip found from much earlier in NAR history. The membership was down to 1700 at end of Pat Miller's time as president, and plateaued at about 4200 for a long time afterwards. We wondered why the membership was so low at this time (mid

1980s). There was a major recession in 1984, and a dues increase. Did the birth of the internet have an effect?

Ted reviewed what we have been doing for membership incentives. We are continuing to send \$5 per member referral, at a cost of \$4K/year. The Apogee Kit stuffers have been successful. The number of persons who join from Estes Kit stuffers is starting to rise more steeply.

We discussed changing the Kit Stuffer design when the next batches are printed. Randy B. suggested the Kit stuffer be designed to be more attractive, and have a picture on it. We discussed whether 3 languages of fine print were needed.

JG reviewed minutes of August 2012, where the Board decided to order 400,000 Estes kit stuffers and approve up to \$8000 for them with a plan to review. Apogee puts kit stuffers in on their own, and the NAR does not pay for them.

We could do some things with on-line membership for new members to track better how the members heard about the NAR. However, some of these changes require programming interface changes with NEON database that are costly and difficult.

Education Committee Report

Ted C. noted that Education Committee Chair Vince H. has a very important committee with the largest number of volunteers.

Vince reported that the 4H is promoting a Youth Summit and will have NAR volunteers there to talk about TARC. A 4H group won the TARC competition and went to international meet last year, but he couldn't tell whether they parlayed it into more participation. It is hard to track how the national organization communicates. Also 4H is also having a national science day, but they are including stomp rockets, and not model rockets. They have a nominal mission to launch 'food' (e.g. raisins) to help refugees. Vince is trying to establish a dialogue and is still looking for a way to partner that would lead to more launch field availability for NAR members. He was hoping to get 4H groups to partner with sections and therefore provide a field. Ted C. suggested that we could we target a few states/sections to make partnerships happen.

Vince also wants to track better our partnership with Civil Air Patrol. Ted C. noted that CAP groups have access to airports and Air Force Reserve bases, and we could perhaps use these venues for flying with these partnerships.

John L. asked if we could find out where all 4H sections are. Could we change the TARC applications to ask whether they are 4H or CAP teams?

Ted C. noted that he judges 4H aerospace for Minnesota State Fair, but usually the contestant is a kid on his/her own, without a visible organization.

Vince H. and Ted. Noted that if we can find out where 4H or CAP are flying, we could go to their launches and meet them—their field might turn out to be a good secondary or backup field.

Vince also talked about the Museum of Flight 1-day Teacher Workshop to occur on August 9. Tom Sarradet from Northern California will go to Seattle to run the workshop. Tom wrote the teachers' guide about how national standards match up with model rocketry as part of his master's degree.

We also discussed the Fly 50K program. Jennifer Ash-Poole has been collecting the input and continues to update the web site, and is willing to continue to do so. Randy B. suggested that we give recognition to sections that did best cumulatively and this year in this program.

The Board also discussed the Student Launch Initiative, pointing out many difficulties and suggestions for improvement. John L. had built many launch pads with his labor at NASA expense that are specialized, so they will be used infrequently. This year's program has limited value to NAR as student training. Performing research to support NASA has this year become a priority of SLI above the training. The launch will be held at Huntsville next year. The top teams will compete for \$50K prize. John L. thinks that they need to vet people that are going to go to the final launch, and have only 3-5 teams go for big prize, and put others into a lower category. John L. said that if the NAR volunteers think that we can't meet the safety code, we will not bid to assist. We should adjust bid amount to include travel stipends for volunteers. Last year we did not use all of the funds available. This year bus transport to/from the field was more expensive, and people that are volunteering from NAR without pay. Ted C. noted that we have a great team of volunteers who know what they are doing. We are contractors, not partners. We don't get to decide what their rocket challenge might be. We are not financially at risk. But we worry about burnout of volunteers, particularly John L. Ted noted that in 2014 the ATK funding was the only reason that the event was able to occur (because NASA couldn't fund last year due to sequestration). Ted C. said it would be ideal if the NAR could work with SLI sponsors ahead of time and give them feedback before decisions are made.

The Board also discussed the Small Satellites for Secondary Schools (S4) program headed by Dr. Lynn Kominsky that was offered as a follow-on opportunity for TARC winners. Ted C. said that this was hurriedly done; material was put in TARC packet listing the winners as eligible to apply. This was done in lieu of the SLI NASA program that wasn't available this year. We would like to keep the Small Satellites program as an option as well as SLI. John L. would like to have a small stipend \$400-\$500 for travel go to Black Rock in September for Lynn's program and act as a team support member for the launch. Tom Ha noted that the Board had \$2K set aside to support a TARC to attend if they enter.

Motion: John Hochheimer moved to appropriate up to \$500 for John Lyngdal to attend ARLISS (A Rocket Launch for International Student Satellites) launch for S4 (Small Satellites for Secondary Schools) in September. Vince H. seconded. John L. abstained, otherwise approved unanimously.

Ted C. reported on the activities of the Special Committee led by Pat Fitzpatrick on the Museum of Flight. Pat's liaison to Board is Ted. Ted said that the committee has been doing a great job and wrote an excellent report for the Board. At NARCON the Board voted to allocate \$10,000 in budget for the first MoF exhibit, but Board approval is needed for the plan before money is sent.

Motion: John Hochheimer moved to continue to support a NAR member to conduct educator workshop at Museum of Flight not to exceed \$500 for summer of 2015. Mark W. seconded. Passed unanimously.

Motion: Vince H moved that the board approve \$10 K to support the Museum of Flight NAR exhibit. Mark W. seconded.

Discussion: John H. wants a plan for the budget and to know exactly how they are going to use our money. They need to be clear that they will finish the display. We asked for plans, and haven't gotten anything yet. They want to do it by Thanksgiving but it is not clear that they have all of money to do it. Tom Ha asked if we could commit upon completion of the display to our satisfaction? Ted C. noted that there is a spreadsheet listing the sources of funds.

The Board called for a vote on this motion, mainly because we wanted to change and clean up the motion: Vince H. in favor, 6 opposed. No abstentions. Motion Fails.

New Motion: John H. moved that board approve payment of \$10 K for exhibit of NAR artifacts at Museum of Flight based upon review of plans and recommendation by NAR Special Committee on Museum of Flight Partnership. John Lyngdal seconded. Unanimous in favor.

Joyce G. asked about Educator CD ROM requests; it appears that the process is broken to send these out. Also need to harvest the requests for E-mail addresses of teachers who want to receive the Educator Newsletter sent out by Roy Houchin. We need ultimately to put the materials on the new web site, and get people to sign up for newsletter there. (Subsequent to the meeting, Vince H. and the Education Committee have taken care of fixing these processes).

Ted. C. called a recess at 10:45 pm.

Friday, July 25, 2015

The meeting was called to order about 8:35 am.

Blake Nikolic and his father Petar attended Board meeting and spoke about Australian Model Rocketry Society (AMRS).

Blake explained that the AMRS exists because of insurance, and a \$20 M coverage requirement. They provide HP Certification, and sponsor the Australian Youth Rocketry Challenge. They have worked with Trip Barber for a number of years. The AYRC is in its 5th year and growing. The AMRS is also sponsoring the Thunda Down Under event.

Blake and Peter wanted to discuss reciprocity for motor certification, and also to discuss having a small number of rocket motors certified. AMRS is not seeking recognition to share insurance; they pay \$10K per premium, which is quite inexpensive.

In Australia, rocketry is very unheard-of, but is growing rapidly. Australia has 23 million people. The area is the same size as Alaska, however most of the population is on the perimeter. Their systems are based on NAR and Tripoli. They have a number of Tripoli prefectures. The Australia CASA is the equivalent to the US FAA.

Blake and Peter want to open discussion about reciprocity, which will help with events for next year. Thunda Down Under is not a Tripoli or NAR event. Re. the Australian motors, they don't expect to do export right away. The primary market will be in southern hemisphere. It is unknown whether they will ever come to the US. Tripoli is more HP oriented, while AMRS is more the equivalent of the NAR. Blake said that one thing they have lacked is to be able to bring school kids up through ranks to the high power level. The motors in Australia are A, B, and C motors. The domestic motors were created because it is difficult to get products in Australia. They already recognize NAR and other groups' testing. The Australian motors are manufactured in China. Blake has an extensive fireworks background.

John L. noted that Quest has their motors manufactured in China, and has them branded then imports them. Blake noted that the Canadian Association of Rocketry (CAR) did testing in China, and sent samples to Canada where they did chemistry, x-rays, etc. and basic performance testing. The motors are then imported to Australia. Blake said that in Australia they have their own test stands, and get data and compare with other locations.

John L. noted that the NAR already has reciprocity with CAR. If CAR recognizes them, then we should. However, Blake pointed out that CAR did not do the testing. It is expensive to ship motors between countries for testing. John L. suggested that the NAR could take a look at ARS's data, and see whether their testing procedure matches up with ours.

Blake said that he could send data and testing procedures. Everything should be identical, except it will be in metric measurements.

Ted C. commented that it would be best to have the ARS documentation reviewed by NAR S&T and have them make a recommendation.

Ted C. asked if the Australian flyer certification process is similar to ours.

Blake answered yes, but that most members use Tripoli since they have Tripoli prefectures. They have Level 1, 2, 3. There are written procedures. Officers to certify to level 3. They use mainly the L2 exam, as the other exams have zero relevance to Australia. He would be more than happy to send procedures, and exam examples, and invites us to interview those who have gone through the process.

Blake said that, in Australia, research motors are basically nonexistent. They can get E-matches and igniters, but they can't make propellant.

Ted C. noted that the reason NAR is conservative on Research is that the NAR tries to support activities that have a legal framework. Without NFPA support, different states have interacting and conflicting standards. It is almost impossible to get a standard regulation, and it is not possible for NAR to advise members on local regulations.

Ted C. suggested that Blake have the ARS HPR certification processes looked at by the NAR High Power Committee.

Blake noted that they do have some challenges in running Thunda Down Under next year. They have groups from around the world coming from non-recognized systems. They want the participants to join local organization and get certified in Australia. Reciprocity would make it easier. In the registration, they could make the participant a member of AMRS for the event, and have insurance coverage just for that event.

With respect to US participants shipping models and motors to Australia for the Thunda Down Under event, Blake said that he sends a shipping container from the US with rocket kits and motors every 9 months, and so they would organize a shipment ahead of time. They will give a central location to send rocket you might want to ship. Details will be provided at the meeting Saturday night. Insurance-wise the US participants will be fully covered. The event is to be held 12-15 March, 2015. A full-scale V2 project is under way, and there will be a 60,000 ft waiver.

Blake also noted that they are encouraging Raytheon Australia to bring their TARC team to US.

Motion: John H. moved that the Board accept reciprocity for both motors and high-power certification from AMRS pending affirmation from S&T and High-Power committee. John L. seconded. Passed unanimously.

Motion: Vince Huegele moved that the Board approve minutes from the last meeting. Tom Ha seconded. Passed unanimously.

Contest and Records

Steve Humphreys' report was represented by Ryan C. Steve H. would really like the S&T altimeter tester to be finished as soon as possible. The tester is present at NARAM. Bill Spadafora has been briefed by Bob Krech as to the operation, but they don't consider it finished.

The committee had an action item to find ways to increase competition participation. Recently Chad Ring stepped down as Midwest Region Contest Board Chair, and Dan Wolf is taking over for now.

Regards altimeters and proposals to have NAR provide standard ones through NARTS for example, the Committee did not want to compete with manufacturers. They noted that not many people do competition, and members look to NAR for standards, and want altimeters to be as accurate as possible.

Also, the NAR should not dictate requirements for altimeters beyond such properties as accuracy and data resolution, and maybe how rugged they are.

The Contest Board has a continuing effort to approve as a NAR contest event any new FAI event. S2P is a new event, and will be in Pink Book.

John H. noted that he didn't want NAR and NARTS as brokers in altimeters.

O Lee James said that there is confusion among the members about who approves altimeters. It was suggested that it might be good to have a policy that the Contest Board approves altimeters until S&T process is in place. Someone on the Board noted that there is a Board Directive that the Contest Board is in charge (this directive was made when Tom Lyon was involved in the Contest Board). The confusion is in the Bylaws that ascribes responsibility to S&T instead of to the Contest Board.

The plan is to build 2 systems, so that both S&T and the Contest Board can test.

John L. said that we need to drive the altimeter testing system to a more functional design, and give one to contest folks, and leave the other with S&T. Ryan C. said that in the interim Steve Humphrey has been approving with his ad hoc testing procedure.

John H. recommended that, to clarify confusion, that the NAR Board issue a statement that it continues to support Contest Board as certifying body for altimeter use in competition. This should be announced in the NAR Town Hall Meeting and put on the web site.

Ted C. asked about procedures to manage the new web site. Ryan said that for the Contest part, Steve can edit the content. Chris Kidwell will edit Pink Book. Chris Flanigan and Trip Barber will be able to edit Contest Guide. Some regional Contest Boards have web sites of their own, and we can redirect links to these. For new ones, we can move them to the new web site. Dan Winings should have access to records.

FAI

Ted. C. noted that John Langford is doing amazing work organizing this activity, and will be receiving an award from the NAR for his work. There are 48 people going to Bulgaria. The Great Lakes meet was cancelled due to timely assurance of sufficient attendance. There are some FAI/NAR meets with a few foreign attendees.

John Lyngdal said that there is continuing discussion of contest certification for FAI motors, with D5s in question. The motors are available on-line--is it "generally available" enough?

Ted C. suggested that we clarify by issuing a statement that the Board appreciates continuing interaction with S&T for contest approval of motors and agrees that standard of availability of at least 1 on-line source with availability to 50 states is reasonable. After discussion, the NAR Board agreed that the Contest Board has final authority for contest approval of motors.

Randy B. commented about the RCP process. People are putting RCP request in, but the requests are being changed significantly from what they were when it came to voting time. Board members commented that Jim Filler works to make the wording acceptable to everyone. Sometimes when an individual puts in multiple RCPs, Jim combines them as one. Ryan said that Jim works with people and would not make the changes until they approve. Ted asked if the Contest Board should take up this issue? Ryan replied, that if it is a continued problem, we should bring it to the Contest Board. The Contest board will meet at NARAM. We want to get this process into the new web site.

Technology committee

Ted noted that at the last Board meeting the Board voted to pay someone to do the new NAR web site. The plan is for the new site to go live on August 9. It can be previewed for now at new.nar.org. After it goes live, the old web site is still accessible at old.nar.org. A discussion followed of suggestions or changes to the new web site.

Randy B. asked to make form to change section details.

We could also have Form to register a NAR Launch. We need to manage lots of people having access to site. Ted is going to emphasize that the site will launch with known issues, and he is asking for help with Contest and Records, Education, etc. to improve and maintain the site. Art Upton will put HP Awards on next week.

So far we have spent \$4K out of \$6K of Jon Bolden's (web designer's) budget. His time will be spent on training and helping us troubleshoot. Training is available at new.nar.org/nar-website-training.

Only Ryan C., John H., and Ted C. can add people to change any content to web site. Each committee has its own section that they have access to, but there is no way for them to add people. Clearing house for how to get people added.

We would like to have a way for people to create their own section web site and put it at the NAR space. Should there be a form for requesting to be added to list of approved editors?

Joyce G. asked about disk space and costs; according to Greg Deputy, the space is inexpensive, and costs \$300/year.

Chuck Neff is adding sections/local clubs.

Board members asked if we can we monitor traffic? Get quantitative measures of use? Monitor Google searches? Could we have a Facebook Link? We would like a Members-only site as quickly as possible, as this enables a lot of things we would like to do for benefits to members. For example, there are some reports that NARTS sells (such as past R&D reports) that we could make free to members on members-only part of site. However, this step involves interfacing with the NEON member database, and requires working with NEON for additional programming.

We could also include history: A list of past presidents, history of NAR, award winners, NARAM winners.

Joyce G. asked about the Board Meeting packets, and what else could be archived on the web site. Ted C. replied that minutes will be archived. Other possibilities are audio files, videos, and a live feed for NARAM.

Ted thanked Ryan for all of his work and to pass on our thanks to web site designer Jon Bolden. The Board will discuss later whether more funding should be allocated for Jon's continued work.

The Board also briefly discussed membership cards: the NAR HQ receives about 5 or so E-mails per week about cards that are late or lost. We could print ourselves, but the printer is very expensive. Right now this function is outsourced.

Standards and Testing

John Lyngdal reported we continue to receive motor CATO reports: There are no huge issues with any particular motors; manufacturers have been good about servicing warranty claims after CATOs.

Ted C. raised the question of whether we still want to be doing recertification of manufactured motors in this day and age?

John L replied that we could set a standard for failure reports that would be a trigger for recertification.

Ted C. said that manufactured motor certification was not required by NFPA. In the past, there were enough "fly-by-night" motor manufacturers that testing was needed. But now manufacturing is regulated by the NFPA. Randy noted that manufacturers change formulations. Ted C. responded that the NFPA requires manufacturers to notify them if the variance is large (e.g, 20%).

John L. posed an example: What if the manufacture changes the delay, etc. but the motor meets specs. However, not everyone knows what the specification is. Ted C. said that we could also consider lengthening the recertification intervals. We could limit certification to black powder motors and TARC motors. Does TARC need to know the thrust curve? Some flyers, e.g., buy 100 motors from same lot and tune airframe to that lot.

Currently NAR recertification is required every 5 years; a few years ago this was changed from 3 years. In the NFPA rules there is a 10-year clause for expiration or storage life unless manufacturer specifies an expiration date.

John L. was asked about what would happen if the MIT test stand became unavailable. There is evidently a cabin in Maine that is available for use, but would

need some work to make functional. John L. has a site in Oregon, but doesn't have staff any longer to help with such an operation.

High-power Services Report

Mark Wise represented the High-Power Committee report provided by chair Art Upton. The committee could use some help in how to organize assistance to those requesting it for high-power certification attempts. Ted would like to establish High Power Awards, and maybe give out pins for accomplishments.

National Events

John H. noted that France won the international competition that our winning TARC teams participate in. The French team had a great presentation. John would like to see the teams give presentations describing what they learned and not what they did. The core three teams have aerospace industry groups supporting them.

John H. reported that the finances for NARAM 2013 have been completed, and this event made a net \$2500 profit, all of which, except for \$700, was given to the sponsoring section. The sponsors bought lots of equipment, etc. and 'donated' it to the NAR, and delivered it to John's NAR storage unit. Some of these things will go to TARC. John recommended that we tie the final payment/closeout to the publication of a Sport Rocketry article.

John H. also reported that finances for NARCON 2014 have also been resolved. This event gathered huge raves in the poll. Lots of young people attended, including many Florida Institute of Tech. students. They made effective use of high-school volunteers.

John H. reported that NSL 2014 made \$700, and the article for sport rocketry is done. [As an aside, John L. didn't know who is going to provide article for the NASA Student Launch Program. There is a proviso in the contract that they review it before it goes to press.]

John H. reported that NARAM 2014 is starting well. There are 220 sport and contest registered fliers, and 95 contestants. There will be B-divisioners, thanks to a group of 10 fliers from India attending. All of the profit will be given to SCORE and SCORE can share with other local clubs if they want. John wanted to thank Estes for all of their help.

John H. reported that NARCON 2015 is likely to be held in March, near the Air Force Museum in Dayton, OH. NSL 2015 will be in Orangeburg, SC on Memorial Day weekend. NARAM 2015 will be held in Tucson, AZ. They have brought up a desire

to award cash prizes instead of hardware, and will make a proposal to the Board about this request

Ted brought up the subject of the NAR Champion pennant which has flown with astronaut Jay Apt in the Shuttle, and was hand-sewn by Barbara Stine in the 1960s. Ted wants to retire the banner and put it on display at the Museum of Flight. The banner is too frail to be flown, and has resided in a frame for protection.

Ryan C. has had a replica pennant made by his mother that we could pass to the championship sections starting this year, and that could be flown. We could also make a pennant with the year on it to give to each championship team each year that they could keep and fly.

This year's winning section can get their photo taken with the old pennant, but not keep it, and this would be the last NARAM that the pennant would be present.

We could try along with the pennant to include the names of the winning sections in the MoF display.

Motion: John Hochheimer moved to retire existing Section Championship pennant and loan existing one to Museum of Flight for display. Mark W. seconded Ryan Coleman and Joyce Guzik opposed. Vince, Randy, John L., John H., Mark W., Tom Ha in favor. Motion carried.

Section Activities

Chair Randy B. gave the report. There are now at 145 sections, and we are gaining sections on a regular basis. There are 13 sections from 2013, and 10 from 2012 that haven't officially renewed, so there are 23 sections that we could follow up with to get them to renew. Some said they are still active, but need to turn in paperwork.

Randy B. reported that the section renewal process went well, but we need to make changes. He will send renewal info in Dec-Jan, and will send site insurance certificates after these are returned. Eliminating section fees did cause a problem as then the sections thought that they didn't need to do anything and therefore we lost track of sections. Right now Randy B. has in the database only a President and Section Advisor. If that is the same person, it presents a problem if the person can't be reached. Randy would like to implement a policy that the president and advisor cannot be the same person, or alternatively to ask for a second contact person other than the president.

In the past year a free membership per section was offered to give to a junior NAR member. Randy B. sent out 164 of these offers, but only 10 were returned. Sections have until December 31 to reply.

Randy B. would like to make section renewals electronic, and would like to have a separate database in NEON for sections. However, these changes require more programming support in NEON.

Randy's also said that his priority is to reactivate the section excellence award that has not been awarded for 5 years.

John H. noted that the changed expiration date for insurance made the process difficult this year for our insurance agent Bob Blomster. John H. also said that some changes to NEON would make the process easier for Bob Blomster as well.

Randy B. said that he would prepare a proposed layout for the database. Then we will need to get a quote from NEON on cost to implement. If Randy could get this done quickly, we could get NEON to bid in by December. We may or may not be able to transition to a new process by 2015.

John H. reiterated that the highest priority should be to automate section renewals with NEON. The touch point of the NAR to sections is extremely important, and it is affecting things like insurance. As a section president, we should be able to punch a button to update. This should generate E-mail to Bob Blomster to request insurance certificate. We should involve NEON right away and have a consultation about how to implement this. Randy said that he would set up a phone call with NEON including Jonathan Rains, John H., Randy Gilbert, and Randy Boadway.

Randy B. noted that web page awards were finalized, and would be awarded at NARAM.

Section grants. Have not spent all money, but still getting requests. Process needs to be better. We expect to have the grant application online in the new website.

Tom Ha noted that \$3194.82 in checks cleared for the section safety grants out of \$10 K available. Ted C. said that we need to do a better job publicizing what we are offering so that people better perceive value to organization.

Ted suggested getting a volunteer to do section grants, awards, etc. to free up more of Randy's time. There are lots of volunteers from the survey that we could engage.

Leftover Safety Topics

Ted noted that we have had multiple requests for water rocket safety codes. Several codes are in existence. Steve Lubliner wrote a draft/proposed one, but he hasn't talked to manufacturers yet. Ted talked with Bill Stine. Ted will ask Steve to send proposed code out to Pitsco (?) and Quest, two big manufacturers, for comment.

Board expresses appreciation to Steve Lubliner for his efforts!

Vince H. asked whether the water rocket fliers will have insurance coverage if they follow the safety code. John H. replied that we should offer the code as suggestions for the general public, and that the NAR adds some authenticity. We haven't talked with Bob Blomster about this yet—should we ask him if our insurance will cover, or ask him to specifically exclude water rockets? Should we put caveats on our insurance policy if this code is available on our web site?

Treasurer's Report

Tom Ha presented the Treasurer's report.

The books are balanced as of 5/31/2014. Some items are paid for the entire year, and the SLI income has not arrived yet. Tom predicts a deficit (income – expenses) of -\$21,000 for 2014, but notes that this is deliberate as the NAR planned to spend down some of their surplus.

Tom has been opening \$10K CD account per month with surpluses we don't intend to spend right away to get better interest, and also so that everything is NCU or FDIC insured. These investments are safe, and there is no penalty for withdrawing early. Opening CDs by \$10K/month. Rest is in general fund checking account. Tom noted that we are still receiving income for site insurance and section renewal fees, as some sections are still paying them.

When asked about how much time he spends on the Treasurer's responsibilities, Tom replied that he spends about 8 hours/month on checks; 8 hours/month on the books; 8 hours/month, on backup, etc., and 8 hours-20 hours/month working with Marie. Tom noted that some improvements could be made processes for use of Quickbooks by Todd Schweim for billing advertisers. Tom sees income as lump sum deposits, but can't always trace back to the individual. At the moment there is a \$300 deficit between the \$2400 income expected and \$2100 was received that needs to be tracked down.

Tom noted that we have retained Padden Guerrini to review our books for FY2013 in an informal audit. The only issue was that they provided custom software documents, so Tom could not do the paperwork on his own. They did help him learn to do it manually. Tom gave Ted C. a password protected file with all reports, passwords, etc. as a complete backup of the NAR financial information. Tom said that Padden Guerrini could take over and help if Tom became suddenly unavailable. Tom said that his son Christopher has also been learning about the treasurer responsibilities, so Tom has been documenting what he does on a monthly basis that can serve as a manual for future NAR treasurers.

Tom also discussed some ideas for NARTS and his visit with Marie at headquarters (the latter would be discussed further in Executive session).

John H. noted that he is having difficulty organizing and booking reservations for national events without a NAR credit card. He can't pay for everything by check. The convention center, hotels, etc. require a credit card on file. John H. has been paying with his personal credit card, and reimbursing himself by check, but doesn't feel comfortable doing this. Also a credit card would have limits, so would be more secure. There is a NAR credit card now, but it only has a \$500 limit, and some items require a \$4000-\$20,000 limit.

Motion: Joyce Guzik moved that John Hochheimer be issued a credit card for \$10 K limit for National Events. John Lyngdal seconded. All in favor, except for John H., who abstained.

Moved to executive session on Friday at 3:36 pm.

Discussed awards to be announced at Banquet and HQ operations.

Out of executive session at 4:40 pm.

Motion: Joyce Guzik moved that the Board approve \$11K instead of 10K for FY2014 scholarships. Mark Wise seconded. Passed unanimously.

(The reason for this increase was that there was no clear cutoff until after 11 in ranking among the applicants this year, but only \$10 K had been allocated).

Joyce G. discussed starting a new grant program for non-Cannon grants for after-school clubs, 4H, Scouts, etc. that would not be restricted to teachers using model rocketry as part of their class curriculum. Joyce G. also wanted to increase the scholarship amounts; \$1000 does not cover very many college expenses, and it is a lot of effort to apply for and judge the scholarships and grants for a small amount of return.

John L. discussed for 2015 giving Small Satellite for Secondary Schools (S4) grants to participants outside of TARC. \$300-400, per grant, with up to five grants.

John L. also wanted to see the NAR lower membership rates for up to 25-year olds. Tripoli members raise their dues after age 24. Ted C. noted that the NAR has 250 members from 21-25 years old, and so the NAR would lose \$9 K in income. However, we might retain some members longer, so the income loss may be closer to \$5 K in the long term. Ryan C. noted that the lower rates would help to keep

those in college in the NAR. Vince H. thought we could just change the upper age limit for Leader members from 21 to 25. Ted noted that changing the Leader age would require a bylaw change, but that lowering dues for the youngest Seniors would not. Also, every fall, colleges want a discount for their members to join the NAR. Ryan C. noted that the qualifications to run for trustee are to be a Senior or honorary member, and we do not want to rule out potential trustees 25 or under. Some membership forms would need to be revised. We could plan for a September 1, 2014 start.

The Board also discussed authorizing for 2014 additional allocation for Jon Bolden for web design not to exceed \$5000.

The following motions were made as a result of these discussions:

Motion: John H. moved that we buy another round of 400,000 Estes Kit Stuffers for estimated \$8K. Seconded by Ryan C. Passed unanimously.

Motion: John H. moved to authorize the Executive Committee to spend up to an additional \$5K for Jon Bolden web design. Mark Wise seconded. All in favor except for Ryan C., who abstained.

Motion: John H. Set dues for NAR members under the age of 26 to \$25. Vince H. seconded. Tom Ha abstained.

Motion: John H. moved to increase funding for S4 program by an additional \$1500, with John Lyngdal to administer. Tom H. seconded. Passed unanimously.

Motion: John H. moved to increase non-Cannon educational and scholarship educational grant fund by \$15,000 for next budget cycle, with disbursement to be determined by Education Committee. Seconded by John L. Passed unanimously.

The Board recessed at 5:24 pm, to reconvene after the Association Meeting Monday night.

The Board reconvened at 8:20 pm Monday night, following the Association Meeting. All trustees running for reelection were reelected.

Motion: Vince H. moved that we re-elect the current NAR officers. Mark W. seconded. Passed unanimously.

Motion: Ryan C. moved that the NAR reimburse all Board members up to \$500 for properly documented travel expenses to Board Meetings. Mark W. seconded. Passed unanimously.

There was some discussion about whether the NAR could do anything to help the situation in California to help change regulations that are making it difficult to fly model rockets. Ted C. cautioned that we could educate legislators, but not lobby, or we could risk our 501c3 status.

Motion: Ryan C. moved to adjourn. John H. seconded. Passed unanimously.