

The Spectrogram

Newsletter for the Society of Telescopes, Astronomy, and Radio

June 2003

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S*T*A*R
P.O. Box 863
Red Bank, NJ 07701

On the web at:

<http://www.starastronomy.org>

June's Meeting

The next meeting of S*T*A*R will be Thursday, June 5th.

The meeting will begin promptly at 8:00 PM at the King of Kings Lutheran Church, 250 Harmony Street, Middletown.

This will be S*T*A*R's annual business meeting, and there will be a lot of business to take care of. Check out the President's Corner for details of some of the issues that will be open for discussion and voting. And, if you don't see an item that you feel is important, please drop me a line at cantrell@optonline.net. No phone calls please.

Thanks.

Thanks for the Memories!!!

Eventually, all things must end. In that spirit, this will be my final edition of *The Spectrogram*. While I've enjoyed the experience and, I hope, improved the newsletter a little, it's time for me to move on to other things. I have other commitments to honor and, frankly, I can use a break.

Thank you to everyone who has so generously donated his or her time and effort in making this a really great newsletter. I'm someone will step up to become the next editor, with my promise of help to get you started. If you're interested, drop me a line at cantrell@optonline.net.

Thanks!!

Greg Cantrell

Calendar

September 5, 2002
Ernie Rossi

October 3, 2002
David Segelstein & Gordon Waite

November 7, 2002
Dr. Haimin Wang

December 5, 2002
Canceled due to poor weather

January 2, 2003
Dr. Eddie Guerra

February 6, 2003
Bob Sal

March 6, 2003
Canceled due to poor weather

April 3, 2003
Swap meet, optics cleaning, etc.

May 1, 2003
Freeman Dyson

June 5, 2003
Annual Business Meeting

President's Corner

By Greg Cantrell

This will be my last column as S*T*A*R's president and I ask that you indulge me (a little) as I recount some of the successes of this past year and, perhaps, a thing or two that I'm passing on to next year's prez.

Some good things have happened since last September. We managed to get into the news, in a positive way, at least three times (twice in newspapers and once on the radio). A "new member" information packet was developed. A dedicated group of glass pushers met on a nearly weekly basis for mirror grinding and conversation (sometimes more one than the other). And we stayed in the same meeting place for an entire year!!

We had a successful trip to the Hayden Planetarium, the membership has grown, and we've forged new and friendly bonds with our neighbor astronomy club to the south. And we reached agreement with Allaire State Park for use of their facilities for two semi-annual "newbie" events.

All the while, the speaker program has entertained and enlightened even our most experienced members. And a larger number of members began regularly contributing articles to the newsletter.

Some things didn't happen. I tried, but failed, to identify a local (and perhaps less expensive) supplier for club t-shirts and outerwear. And discussions for establishment of a club observatory or planetarium never really got off the ground.

Finally, there are a couple things that I still hope to accomplish. The final draft of proposed changes to club bylaws is ready for discussion and a vote at the

June meeting. Copies have been provided to all members, via email or snail mail, along with the appropriate notice for a vote. As a reminder, please bring your copy of the bylaws with you to the meeting, as I won't have enough copies to provide everyone with another one.

The outgoing Board has considered several ways to increase observing incentives and opportunities among the members. After discussion, the Board voted to recommend that S*T*A*R become a member of the Astronomical League. For a very modest fee, club members would become eligible for observing certificates, book discounts, and will receive the League's quarterly newsletter, the Reflector. The club benefits by increased visibility through association with a national organization and discounted liability insurance. This will also be discussed during the June meeting.

Finally, I couldn't hope to thank everyone that has provided help or assistance during this past year. At the risk of leaving someone out (please forgive me if I do!!), the following folks, in no particular order, have made my job a lot easier. Steve Fedor, Ernie Rossi, and Dennis O'Leary contributed heavily to about any project I asked of them. John Ambrose, Dave Britz, Ernie Rossi, Chris Olszewski, Dave Nelson, Gordon Waite, Dan Pontone, John Heidema, Dennis O'Leary, Steve Walters, Nicolas Lordi, and Mike Lindner have contributed to one or more issues of the Spectrogram. Randy Walton contributed to the bylaws effort, provided videos for the bus ride to Hayden, and can always be counted on for an announcement or two at every meeting. Frank Loso and Steve Walters helped out with the hunt for a local observing area. And the long suffering, but always in good humor, club officers, including Andy Zangle,

Paul Nadolny, Chris Olszewski, and Mike Lindner, have entertained nearly every idea I've thrown at them...no matter how far my pitch went into the dirt.

And there have been others...some things are better left between friends...but you know who you are.

To everyone else, I hope that you've had an enjoyable year and that you plan to return next year. S*T*A*R needs your support, and the new officers will need your help! Hope to see everyone at the June meeting! Clear Skies!

May Meeting Minutes

The meeting consisted, almost entirely, of an outstanding presentation by Freeman Dyson. While his announced topic was "Looking for Life in Cold Places", Professor Dyson freely entertained any and all questions. And, at times, the presentation seemed more like an extended conversation with an old friend or colleague.

With Professor Dyson's permission, Gordon Waite and Paul Nadolny videotaped the presentation, and Gordon is producing copies (for a modest donation to the club) for club members. Contact Gordon on the club's bulletin board to learn more.

Finally, candidates for next year's officers were announced. These include Ed Collett, President; Dennis O'Leary, Vice President; Chris Olszewski, Secretary; Paul Nadolny, Treasurer; and Steve Walters, Member-at-Large. Thanks to Steve Fedor for doing a great job as Nomination Chair!

What's Mike Been Up To?

(Wrapping up the year)

By Michael Lindner

Another month with little personal progress. Family and job keep delaying the important work of telescope building. I did get in about an hour of machine time, and learned some new things about my machine.

It all started when I complained last month about my motors being too fast. Gordon was kind enough to lend me a couple of very slow Dayton gearhead motors. Thanks, Gordon! They worked, but neither produced as much torque as the motors I have, and were harder to mount, so I eventually went back to my old motors.

Steve F. gave me a lesson in how to control speed of DC motors. It's only the rotors, not the field magnets, that should be pulse width modulated. That's why speed controllers like mine work well on model railroad engines (with permanent magnets for the field), but don't work on large gearhead motors, where the field magnet is an electromagnet.

In the meantime, my wife suggested I use my router's speed controller. Well, that can't work, I said. But later, I connected it on a lark, and found I got a good range of speed control without losing as much torque as with my homemade speed controller. I decided to try this mechanism.

I haven't gotten in much polishing time that way, but it seems to work well. Next step is going to be to replace the overarm transmission with a pulley system just like the turntable one. That'll allow me the same range of speeds on both motions, so I can have a fast overarm with a slow turntable.

I've yet to try this combination, but conventional wisdom (i.e. Gordon's) is that a slow turntable with a fast overarm is less likely to turn the edge.

Meanwhile, after about five hours polishing, surface one *still* has a 3/8" to 1/2 ring of frosty unpolished glass around the edge. I think the slowness of this is due to the turned edge.

There are two theories about why the edge is turned, and they illustrate a reason why figuring a mirror is considered a "black art". Theory one is that the edge is turned down because I took strokes that were too long, and the tool overhung the glass too much, rounding over the edge. Theory two is that the edge is turned down because I didn't take long enough strokes and the center got worked more than the edge, and so got a shorter radius of curvature.

Without experimenting with the exact same grinding scenario, it's difficult to say which of these theories is true, so it's difficult to correct the error unless one either regrinds the same mirror several times or grinds several identical mirrors.

This is the essence of Gordon's approach to learning figuring. He refigured his 13.75" (heh heh) mirror several times, and now he plans to make two near identical 20" mirrors.

On other fronts, our ATM group is still meeting regularly on Monday's at Gordon's, and work progresses. David Nelson finally got a good sphere, and decided to "smooth it out" using rouge. He is back to a 1/3 wave surface, and is once again "just a few minutes" from being done. Next time he's close to spherical we're going to adhere him to the nearest wall with pitch and send the mirror out to be coated.

Dave's OTA (optical tube assembly) for his 16" scope is coming along, and he's

currently fabricating truss tube connectors for his carbon fiber tubes. It looks like this is going to be a very interesting scope when it's finished.

Steve's and Steve's mirrors are coming along. Both are still being polished. Now that the weather's warm we have begun working outside again. That has its good points (fresh air) and bad points (mosquitoes).

The ATM SIG isn't only about grinding mirrors. This past week Dan Pontone stopped by with some ATM projects; center dotting his primary and installing a filter slide. He forgot the directions for the filter slide, so that'll be a project for next week, but the primary is now center dotted (actually a triangle rather than a dot).

Thus ends my short year-end report on our ATM activities. We will continue to meet over the summer, and if you are interested in trying a hand at making/improving a telescope (or other astronomical project), or just observing us (since the sky's so cloudy, we're about the only thing that can be observed), read the discussion board and stop by on a Monday.



Will the clouds part long enough for a few good observing sessions this summer? We can only hope!

Imaging Special Interest Group (ISiG)

By Steve Walters

Are you interested in imaging with either film or CCD? Are you already out there imaging all those faint fuzzies? Have you been abducted by space aliens?

If you answered yes to questions one or two, get in touch with us! If you answered yes to question three, seek professional help. This group is open to any S*T*A*R member interested in CCD or film imaging. You do not have to be actively pursuing imaging, just interested. We hope to have our first meeting in late June or early July. We plan to avoid new moon cycles, S*T*A*R meetings and ATM SiG meetings (Monday nights).

Here are some possible areas of involvement by the ISiG.

1. Informal discussion about imaging techniques, just sharing ideas.
2. Promoting imaging among S*T*A*R members and getting more people involved.
3. Producing some articles for the S*T*A*R newsletter about imaging.
4. Joint meetings with the ATM SiG to discuss astrograph construction and issues.
5. Construction of barndoor mounts with the ATM SiG.
6. Delivering a program on imaging at a S*T*A*R meeting.
7. Maintenance of the "Photo of the Week" section of the BBS.
8. Sponsoring an "Imaging Competition" among NJ Clubs. [We started to do this a few years ago but ran out of gas]
9. Taking ownership for the astrophoto section of S*T*A*R's website.

If this sounds interesting to you, contact Steve Walters (s-walters@comcast.net) who is coordinating the first meeting or any of the above parties. We're open to suggestions about activities, timing of meetings and anything you would like to propose.



S*T*A*R member Ernie Rossi attempts, once again, to convince a group of local police officers that he not preparing to launch missiles. Photo by Dan Pontone.

Upcoming Events

Star parties and other astronomy-related events are an important part of the amateur astronomy experience. Listed below are several events offering dark skies and astronomical fellowship.

May 30 – June 1 The Mason-Dixon Star Party will be held in York County, Pa. <http://masondixonstarparty.org/> for more information.

June 27 – 29 The Jersey StarQuest 2003 will be hosted by AAAP. Visit <http://www.princetonastronomy.org/> for information.



Are You a STAR Member

S*T*A*R is a member of United Astronomy Clubs of New Jersey (UACNJ) and the International Dark Sky Association (IDA). Meetings are the first Thursday of each

month, except July and August, at 8:00 PM at the King of Kings Lutheran Church, 250 Harmony Rd. in Middletown (intersection of Harmony and Cherry Tree Farm Rd.). Meeting generally consist of lectures and discussion by members or guest speakers on a variety of interesting astronomical topics.

Memberships: () Individual...\$25
() Family...\$35 () Institutional \$25

Name _____
Address _____
City _____ State _____
Zip _____
Phone _____
E-mail _____

Make checks payable to: STAR Astronomy Society, Inc and mail to P.O. Box 863, Red Bank, NJ 07701

Magazines are also available to STAR members at discounted rates, including Sky and Telescope and Astronomy. See STAR Treasurer Paul Nadolny for more information.



Eggs in the Air

By Patrick L. Barry

The sky will be filled with flying eggs on May 10, 2003, when a thousand students converge on The Plains, Virginia, for the first-ever national high school rocketry competition.

Called the Team America Rocketry Challenge

(<http://www.rocketcontest.org>), the competition sets the goal of flying a custom-built, two-stage rocket carrying two raw eggs to a height of exactly 1,500 feet, and then returning the eggs to the ground unbroken. The team that comes closest to 1,500 feet without breaking their eggs will win the national title.

The competition is being organized by the Aerospace Industries Association and the National Association of Rocketry (NAR). NASA administrator Sean O'Keefe will attend the final event.

"The idea is to get kids interested in the world of aerospace," says Trip Barber, director of the competition and vice-president of the NAR. "And they will learn some important lessons about the power of math and science-and cooperation and teamwork-along the way."

To develop their designs, the students first used computer simulator software provided by NAR. Then they had to apply old-fashioned ingenuity and craftsmanship to bring the design to life and flight testing to refine it.

Students constructed rocket bodies using a combination of hobby-store rocket kit parts and custom materials. A typical rocket might consist of cardboard tubes from paper-towel or wrapping-paper rolls, a pre-made nose cone, rocket-kit body segments cut to size, and light-weight, balsa wood fins. But the greatest challenge for many was designing the compartment for the eggs.

Some used plastic Easter eggs as casings, padding the inside with bubble wrap, foam peanuts, or even gelatin. Others decided not to "reinvent the wheel," making a cradle from the egg-crate material used for shipping eggs. Some chose to make larger, more powerful rockets big enough to carry the eggs inside, while others made smaller, more efficient rockets that have a bulging egg compartment mounted on top.

A hundred unique designs will be put to the test in Virginia. Only one will win. But for the students, the real prize has already been won: Learning an approach to problem-solving that works, whether you're launching eggs over a field or sending astronauts to Mars.

In the end, it's all about the future: Future technologies and the kids who will grow up to create them. Many advanced technologies are being developed now by NASA's New Millennium Program (<http://nmp.nasa.gov>). Who will do that work in the future? Perhaps some kids who spent their weekends launching eggs in the air.

Are you a kid? Would you like to build your own rocket? Visit NASA's Space Place and learn how to make a bubble-powered rocket! (<http://spaceplace.jpl.nasa.gov/rocket.htm>) It won't take you to Mars, but it's a good way to get started.

This article was provided by the Jet Propulsion Laboratory, California Institute of Technology, under a contract with the National Aeronautics and Space Administration.

A Boeing Delta II (7326) rocket launched the New Millennium Program Deep Space 1 spacecraft on October 24, 1998.



Here's Looking at Ya!!

NASA's Mars Global Surveyor spacecraft turned away from the red planet for a while on May 8th and took a unique picture of Earth from Mars-orbit. This first-ever image of its kind not only shows our home planet as a tiny alien world in the vast darkness of space, but also includes Earth's moon.



Proposed Changes to Club Bylaws

The following announcement, along with a draft copy of proposed changes to the bylaws, was emailed or snail mailed to all club members on May 4, 2003:

“There were several recommended changes the last time the bylaws were opened for discussion. Several have been incorporated, and the vote on these proposed changes will take place at the Annual Meeting on June 5, 2003.”

Following is a copy of the bylaws, as emailed or snail mailed on May 4, 2003. Proposed changes are shown in red:

Article I – Name

The name of the organization shall be “STAR Astronomy Society, Inc.”, hereinafter referred to as “the organization”. STAR is an acronym for “Society for Telescoping Astronomy and Radio.” This corporation shall be subject to the administrative provisions of the New Jersey Nonprofit Corporation Act.

Article II – Object

The object of the organization shall be to promote interest and knowledge in astronomy and related subjects among the membership and the general public

Article III – Members

Section 1. Eligibility

All persons and organizations interested in the object of the organization shall be eligible for membership.

Section 2. Classes of Members

There shall be the following classes of membership: Individual, Organization, and Family. **Family memberships shall be limited to members of the same household.**

Section 3. Voting

- a) Organization members shall be non-voting members, and shall not be considered in the determination of a quorum.
- b) Each individual member **and each person in a family membership** shall be entitled to one vote.
- c) **Family memberships shall be entitled to two votes.**
- d) Proxy voting shall not be permitted except in the case of adoption of a plan of dissolution.

Section 4. Dues

- a) The annual dues for each class of membership shall be reviewed and determined by the membership each year at the June meeting, also known as the Annual meeting.
- b) Annual dues are payable at the September regular meeting.
- c) Membership shall become effective 15 days after the payment of dues, as recorded by the Treasurer.
- d) Members in arrears for 3 months shall be **dropped removed** from the membership.
- e) The board may establish rules for determination of initial dues for persons or organizations wishing to join at other than the September regular meeting.

Article IV – Organization

Section 1. Officers

- a) The officers of the organization shall be President, Vice-President, Secretary, and Treasurer.
- b) The officers shall perform duties prescribed by these bylaws and by the parliamentary authority

- adopted by the organization.
- c) No person may hold more than one office concurrently.

Section 2. Board of Trustees

- a) The Board of Trustees (the “Board”) shall consist of five voting members elected by and from the membership of the organization: the four officers described in Article IV, Section (1)(a), and a fifth Board member-at-large. Members of the Board shall serve without compensation.
- b) The officers of the organization shall ex-officio be the **officers members** of the Board.
- c) The Board shall have general supervision of the affairs of the organization between meetings of the organization, shall meet to plan and discuss organization business, and shall perform such other duties as are specified in these bylaws. The Board shall be subject to the orders of the organization, and none of its acts shall conflict with action taken by the organization.
- d) The Board shall establish and maintain written policies and procedures regarding the conduct of business. The Board shall also ensure that each officer fulfills the duties of his or her office. Each year the Board shall appoint one of its member to act as the registered agent for the corporation, and shall notify the Secretary of State of New Jersey of the appointment. The Board shall ensure that Annual Reports are filed as required by the statutes of the State of New Jersey.

- e) The Board shall be empowered to establish standing or temporary committees, as it deems necessary. All committees so established shall act solely in accordance with the authority granted by the Board. Members of such committees shall serve without compensation.

- f) The Board shall not be able to undertake any of the following acts without prior approval of the membership:

- 1) To spend sums in excess of such amount that is established by the membership at the Annual meeting.
- 2) To make ~~any~~ capital expenditure **in excess of an amount established by the membership at the Annual meeting.**
- 3) To encumber or cause liens to be placed on the assets of the organization.
- 4) To enter into any contracts.

- g) A quorum for Board meetings shall be a majority of the members of the Board. Actions taken by the Board must be approved by a majority of the members of the Board.

Section 3. Elections

- a) Election of officers and the Board member-at-large shall take place at the Annual meeting.
- b) At the April regular meeting, a Nominating committee of at least three members shall be appointed by the Board. It shall be the duty of this committee to nominate a slate of candidates for the offices to be filled at the Annual meeting.

Additional nominations for all offices shall be accepted from the floor immediately prior to the voting for each respective office.

- c) Voting shall proceed in the following manner: President, Vice-President, Secretary, Treasurer, and Board member-at-large.
- d) A plurality shall be sufficient to elect.

Section 4. Term of Officers and Members of the Board

Office shall be effective on July 1 for a term of one year or until a successor is elected.

Section 5. Vacancies on the Board of Trustees

If the office of President, Vice-President, Secretary, Treasurer, or Board member-at-large becomes vacant for any reason a special election shall be held at the next meeting to fill that office for the unexpired term, providing that at least 10 days written notice **via email, fax, or first class mail** shall be given to the membership in the event of such a pending election.

Section 6. Duties of the Officers

- a) **Duties of the President shall be to:**
 - 1) **Preside at meetings.**
 - 2) **Coordinate the activities of the Board of Trustees.**
 - 3) **Make recommendations to the Board of Trustees regarding committees or working groups, as necessary for the efficient operation of the Board, organization, and its activities.**
 - 4) **Perform other duties as assigned by the Board of Trustees.**
- b) **Duties of the Vice President shall be to:**
 - 1) **Serve in the place of the president in case**

of president's absence or incapacitation.

- 2) **Perform other duties as assigned by the Board of Trustees.**
- c) **Duties of the Secretary shall be to:**
 - 1) **Keep all official documents and records of the organization**
 - 2) **Record the minutes of all regular, business, and Board of Trustees meetings.**
 - 3) **Provide written notifications to members of special meetings or special elections, where provided for under the bylaws, or as requested by the Board of Trustees.**
 - 4) **Perform other duties as assigned by the Board of Trustees**
- d) **Duties of the Treasurer shall be to:**
 - 1) **Execute financial transactions as authorized by these bylaws.**
 - 2) **Receive and distribute all dues, subscriptions and bank receipts.**
 - 3) **Account for all receipts and expenditures.**
 - 4) **Report on club finances at the Annual meeting and at meetings of the Board of Trustees.**
 - 5) **Maintain an up-to-date roster of members.**
 - 6) **Perform other duties as assigned by the Board of Trustees.**
- e) **Duties of the Member-at-Large shall be:**
 - 1) **Attend board meetings.**
 - 2) **Perform other duties as assigned by the Board of Trustees.**

Article V – Meetings

Section 1. Regular Meetings

- a) Regular meetings shall be held monthly from September through June.
- b) The schedule of the meetings shall be determined by and amended by the membership.

Section 2. Annual Meeting

The June regular meeting shall also be known as the Annual Meeting. The order of business at this meeting shall include elections, the setting of dues, and the establishment of spending authority of the Board.

Section 3. Special Meetings

- a) A Special Meeting of the organization shall be called by the President whenever:
 - 1) Requested in writing to the Board by at least 5 members of the organization, or
 - 2) Decided upon by a majority of the Board.
- b) The members of the organization shall be notified of any special meetings by at least 10 days written notice **via email, fax, or first class mail** in advance of the date of such meeting. The notice shall specify the place, date, hour, and purpose of the special meeting.

Section 4. Conduct of Business

Except for actions taken by the Board in accordance with Article IV, Section (2)(c) and Section (2)(f), business of the organization may only be conducted at regular or special meetings.

Section 5. Quorum

A quorum shall consist of one-third of the members eligible to vote.

Article VI – Revocation of Membership and Removal of Elected Officers from Office

Revocation of Membership

- a) A membership may be revoked for any of the following reasons:
 - 1) Willful misuse of organization property.
 - 2) Willful disregard for her/his own safety or for the safety of others while at any of the organization's observing sites or on organization sponsored events.
 - 3) Conduct detrimental to the Organization.
- b) Any member will be subject to expulsion for the reasons listed above after recommendation by the Board, or upon written request to the Board by at least 5 members of the Organization.
- c) Upon written request to the Board of Directors, any member subject to expulsion will be permitted a hearing before the general membership. Such request must be made within 30 days of notification to the member of the recommendation for expulsion.
- d) Following the recommendation, the membership shall be informed at the next regular meeting of the facts upon which the recommendation is based.
- e) After the period for requesting a hearing has expired, the membership shall be revoked after a two-thirds vote at the next regular or special meeting.
 - e) Membership will be reinstated only upon written request to the Board of Directors, followed by a two-thirds vote at any regular or special meeting.

Removal of an Elected Officer from Office

- a) An Elected Officer may be removed from office for any of the above reasons or for misconduct or neglect of duty while in office.
- b) Any Officer will be subject to removal from office upon recommendation by the Board or upon written request to the Board by at least 5 members of the Organization.
- c) Upon written request to the Board of Directors, any officer subject to removal will be granted a hearing before the general membership. Such request must be made within 30 days of notification to the officer of the recommendation for removal.
- d) Following the recommendation, the membership shall be informed at the next regular or special meeting of the facts upon which the recommendation is based.
- e) After the period for requesting a hearing has expired, the officer shall be removed from office after a two-thirds vote at the next regular or special meeting.

Article ~~VI~~ VII – Parliamentary Authority

The rules contained in Robert's Rules of Order – Newly Revised shall govern this organization in all cases to which they are applicable, and in which they are not inconsistent with these bylaws.

Article ~~VII~~ VIII – Amendment and Interpretation of the Bylaws

Section 1. Amendment

These bylaws may be amended by a two-thirds vote at any regular or special meeting, provided the amendment has been proposed by the Board or submitted to the Board by at least 5 members of the organization. The Board shall send a written copy **via email, fax, or first class mail** of any proposed amendment to each member of the organization at least 10 days, but not more than 60 days, prior to the meeting at which the vote will take place.

Section 2. Interpretation

Any question of interpretation of these bylaws shall be **settled resolved** by the Board.

Article VIII – Dissolution

Section 1. Recommendation of the Board

Only the Board may recommend that the corporation be dissolved, in which case it shall adopt a plan of dissolution, and direct that the plan be submitted to a vote at a meeting of the members.

Section 2. Disposal of Assets

The plan of dissolution shall provide that the Board shall, after payment of all liabilities, dispose of all of the assets of the organization to such organizations which agree to use the assets for purposes consistent with the object of this organization, and which at that time qualify for exemption under the applicable sections of the Internal Revenue Code.

Section 3. Approval of the Plan

- a) Written notice shall be given **via email, fax, or first class mail** to each member entitled to vote at least 10 days, but not more

than 60 days, prior to the meeting at which the plan shall be submitted for approval. The notice shall include a copy of the proposed plan of dissolution.

- b) At the meeting, a vote of the members shall be taken on the proposed plan of dissolution. Votes cast by proxy shall be permitted in accordance with Article III, Section (3)(c), provided that such proxy is evidenced by the dated signature of the member. The plan of dissolution shall be approved upon receiving the affirmative vote of two-thirds of the votes cast by the members entitled to do so.

Send Your Name to a Comet!

The impactor on the NASA Deep Impact Mission will carry a CD-ROM on the side of the impactor that will crash into Comet Tempel 1 during the July 4, 2005 encounter. Go to:

<http://deepimpact.jpl.nasa.gov/sendyourname/index.html>

to include a name. After you type in the name, you can print an individually numbered certificate showing the date the name was typed and the number of the certificate. You can also search the database for the name and print it later.

According to NASA's website "The Deep Impact mission will dig deep beneath the surface of a comet to get a first-ever look at the frozen collection of ice and dust left over from the formation of the solar system. Why are we doing it? We learn about comets by studying the ice and dust that flows naturally from a comet as it is warmed by the



Sun. But we will learn additional information by getting down inside where the more pristine material is hidden. Scientists expect to find hidden clues about how the solar system formed when they look at the structure of Comet Tempel 1. To accomplish our goal, we will have to make a deep crater in the surface with a 370 kg (820 lb) copper-nosed impactor spacecraft. Telescopes and instruments on the sister spacecraft, the flyby, will observe the impact from a safe distance of 500 km (300 mi)."

