ASPRS: The Imaging and Geospatial Information Society

The mission of ASPRS: The Imaging and Geospatial Information Society is to promote the ethical application of active and passive sensors, the disciplines of photogrammetry, remote sensing, geographic information systems, and other supporting technologies; to advance the understanding of the geospatial and related sciences; to expand public awareness of the profession; and to promote a balanced representation of the interests of government, academia, and private enterprise.

Geospatial information answers the questions who, what, when, and primarily where. ASPRS is committed to providing the highest quality spatial information to all people for effective decision making and better understanding to improve their quality of life.

The ASPRS Strategic Plan sets forth the goals which represent the focus of the organization that are to be adopted on the national, regional, and local levels. This plan is available at http://www.asprs.org/About-Us/Strategic-Plan.html.

Founded in 1934, ASPRS has given increasing service to the scientific, user communities, and the nation through development of the art and science of photogrammetry, remote sensing and geographic information systems.

Scope of Society Interest

Initially, the core technologies represented by ASPRS are photogrammetry, remote sensing, and geographic information systems (GIS). Supporting technologies include, but are not limited to, cartography, spatial positioning, image processing, and photo interpretation.
The Society's integration of core and supporting technologies to real-world applications are currently concentrated in the areas of: mapping; environmental and natural resources; modeling; simulation; visualization; close range; and sociocultural. The Society advances responsible practice through its professional certification program, continuing education and workshops, publications, standards, and venues for social and career networking. The ASPRS Certification Program was accredited by the Council of Engineering and Scientific Specialty Boards (CESB) in January 2013.

Dissemination of Scientific Information

The Society disseminates scientific information through meetings and publications. Publications of the Society include our journal, *Photogrammetric Engineering and Remote Sensing* (*PE&RS*), published monthly, and the basic manuals of the science — *Manual of Airborne Topographic Lidar, Manual of Photogrammetry, Sixth edition*; *Manual of Remote Sensing, Third edition*; *Manual of Photographic Interpretation, Second edition*; *Manual of Geographic Information Systems, DEM Users Manual, Second edition*; proceedings from technical meetings and symposia; compendiums and monographs on the industry's hottest topics; and an index to the *Journal*.

In addition to its publications, the Society thrives through local and national meetings, and specialty conferences to disseminate knowledge of the science as rapidly and effectively as possible. The national Society is responsible for the development and presentation of the Annual Convention and specialty meetings to help keep professionals up-to-date on new developments and technology in the field. The Society is the U.S. Member of the International Society for Photogrammetry and Remote Sensing.

Society Membership

Seven classes of members constitute our Society: Honorary Members who stand preeminent, having rendered outstanding service to the Society and the profession; Fellow Members who have been active for at least ten years and who have performed exceptional service in advancing the science and use of the technologies; Active Members — those from whom the Society draws its officers, directors, and committees; Associate Member — those individuals who are moving from being students to beginning their careers; Student Members — a special class of members established to assure a continuing flow of scientific capability in the field of photogrammetry and remote sensing; Sustaining Members — commercial companies and government agencies who desire to render monetary support to the Society; and Emeritus (life) Members who have maintained continuous membership for 25 years and have reached the age of 65, or for 35 consecutive years and have reached the age of 60.

Governance of the Society

The governance of the national Society is vested in its Board of Directors and its Officers. Responsibility for the day-to-day management of Society affairs rests with the Executive Director. The Society has established and supports a series of committees, which are responsible to the President. Their function is advisory. However, committee chairpersons may act for the President when directed to do so. The Society is subdivided geographically into 17 Regions, some of which have organized additional Chapters. Each of these regions selects its own officers and directors, and elects one member to the Board of Directors of the national Society. The Society organization includes six Technical Divisions: Remote Sensing Applications Division, Primary Data Acquisition Division, Professional Practice Division, Photogrammetric Applications Division, Lidar Division, and Geographic Information Systems Division. The purpose of these Divisions is to bring the Society closer to its members who are ordinarily specialists in a limited phase of the discipline. The Division Directors are members of the Board of Directors of the Society. In addition, the Chair of the Sustaining Members Council represents that segment of the membership on the Board of Directors and the Chair of the Student Advisory Council is a non-voting representative of that segment of the membership.

Society Foundation

In 2004, ASPRS launched the ASPRS Foundation, Inc., an independent 501 (c) 3 organization that raises, invests, and grants funds to the ASPRS Awards and Scholarships Program. The original American Society of Photogrammetry (ASP) Foundation was formed initially in 1979, and later transformed to become the International Geographic Information Foundation (IGIF). In late 2003, oversight of IGIF was transferred to The Association of American Geographers (AAG), a sister society and longtime co-sponsor of the IGIF. ASPRS subsequently negotiated an agreement with the AAG for ASPRS to re-establish stewardship over the organization.

The ASPRS Foundation maintains an extensive and broadly-based program that provides grants, scholarships, loans and other forms of aid to individuals or organizations pursuing knowledge of imaging and geospatial information science and technology, and their applications across the scientific, governmental, and commercial sectors. A key short-term goal of the Foundation is to fully endow all existing ASPRS awards and scholarships. ASPRS has set aside funds from the Society's reserve fund to match individual ASPRS member and regional contributions to the Foundation. The activities, bylaws, operating procedures, and Board of Trustees are listed at www.asprsfoundation.org, and donations may be made online at http://www.asprs.org/Foundation/Donate-to-the-ASPRS-Foundation.html.

ASPRS Board of Directors 2013-2014

Front Row (l.-r.): Adam Benjamin, Student Advisory Council Chair; Pierre LeRoux, Primary Data Acquisition Division Director; Stewart Walker, President-Elect; Bobbi Lenczowski, Past President; Lynn Usery, Vice President; Steve DeGloria, President; Jeffrey M. Young, Rocky Mountain Region Director; Becky Morton, Professional Practice Division Director; Barry Budzowski, Central Region Director; David Kreighbaum, St. Louis Region Director; Doug Fuller, Western Great Lakes Director

Back Row (l.-r.): John Boland, Central New York Region Director; David Alvarez, GIS Division Director; Haluk Cetin, Mid-South Region Director; John Trunkwalter, North Atlantic Region Director; Thomas J. Young, Florida Region Director; Jim Plasker, Executive Director; Brian Murphy, Sustaining Member Council Chair; Charles Toth, Eastern Great Lakes Region Director; Lorraine Amenda, Northern California Region Director; Don Lauer, Treasurer; Barbara Eckstein, Potomac Region Director.

Missing: William Hazelton, Alaska Region Director; Chris Aldridge, Columbia River Region Director; Lucinda Clark, Intermountain Region; Lewis Graham, Lidar Division Director; Dougl Smith, Photogrammetric Applications Division Director; Terry Curtis, Puget Sound Region Director; David Szymanski, Remote Sensing Applications Division Director. There are currently no Directors from the New England or Southwest U.S. Regions.

The ASPRS 2013 Yearbook is available online!

The complete Yearbook is available online at http://www.asprs.org/a/publications/pers/2013_Yearbook.pdf.

Be sure to check out the
President's Address
Executive Director's Report
and the Awards

Relevancy of ASPRS in a Geospatial World

By Stephen DeGloria,
ASPRS President

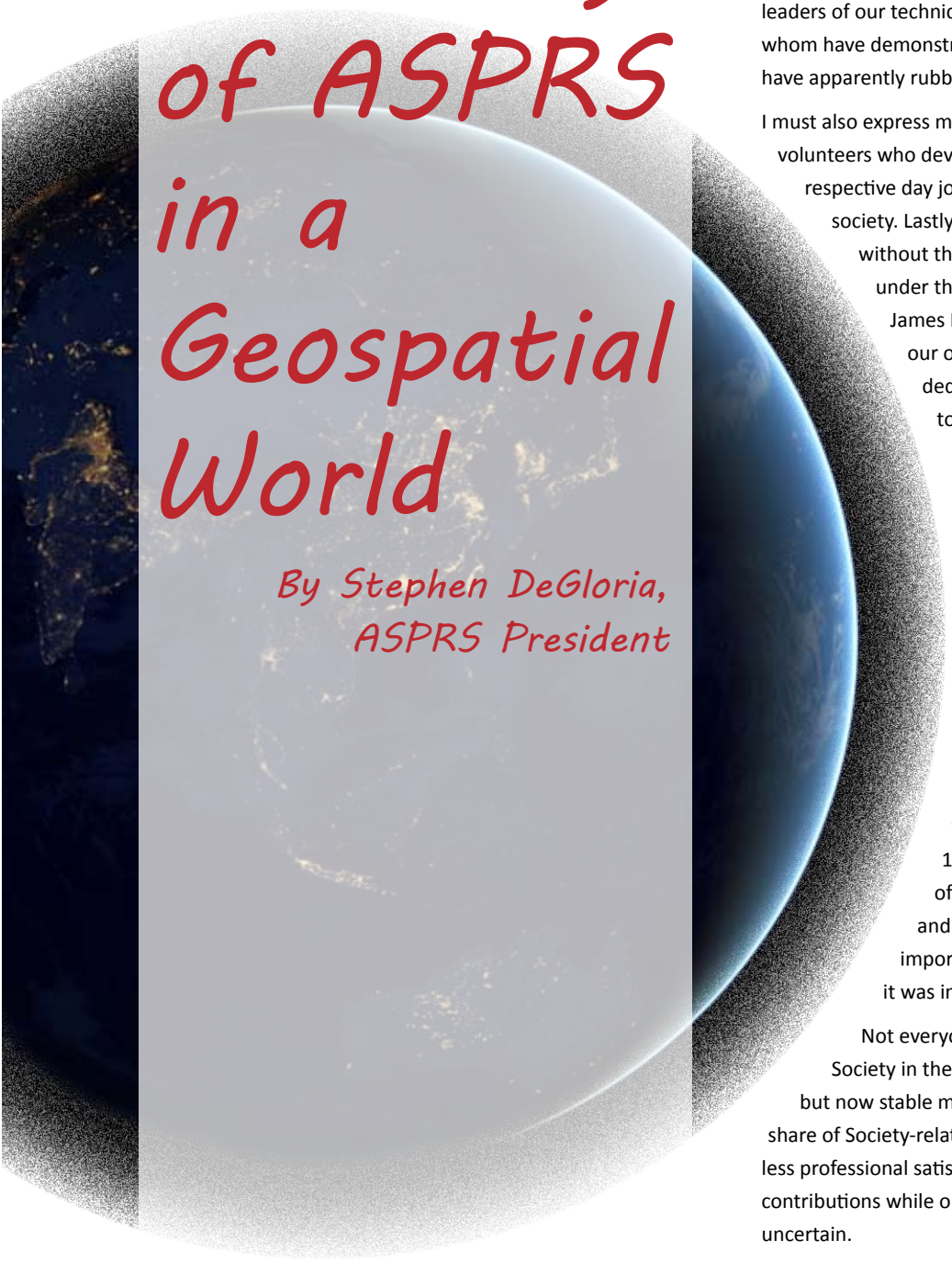


Image courtesy of NASA Earth Observatory image by Robert Simmon, using Suomi NPP VIIRS data provided courtesy of Chris Elvidge (NOAA National Geophysical Data Center). Suomi NPP is the result of a partnership between NASA, NOAA, and the Department of Defense.

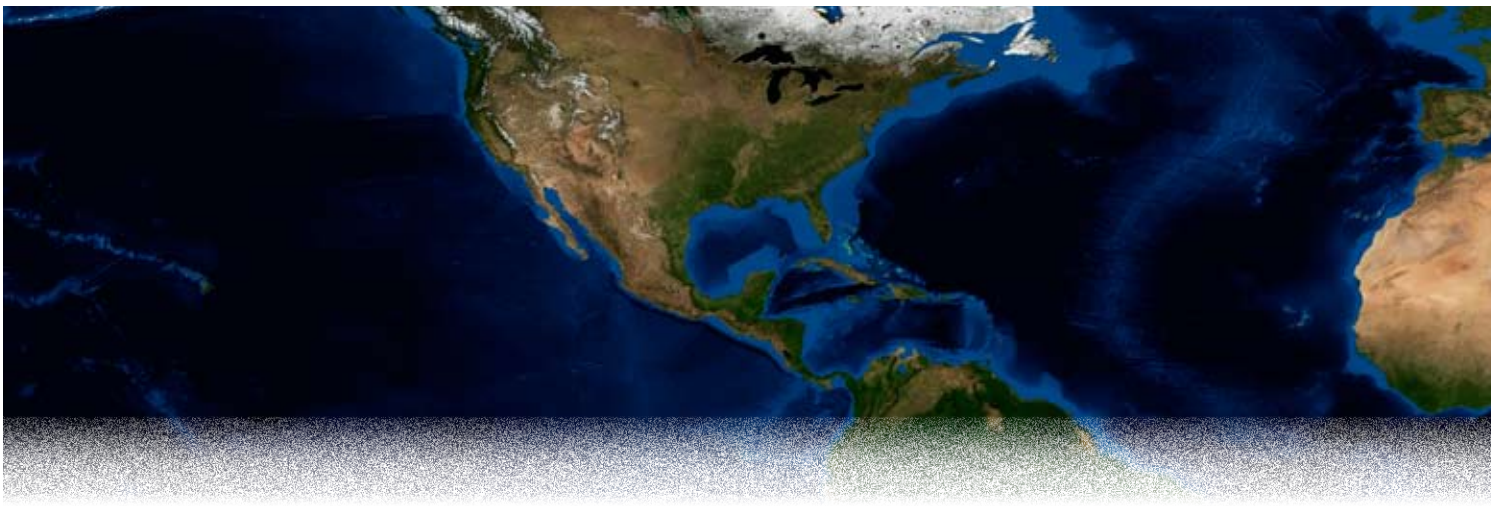
I am deeply honored and humbled by the confidence you have placed in me to serve in this capacity and by the support I have received over the years as a regional and national officer of ASPRS. Though there are always many individuals to thank for such success, I must first acknowledge our past presidents, upon whose shoulders I stand, and my fellow national officers and elected leaders of our technical divisions and standing committees, all of whom have demonstrated strong leadership skills, some of which have apparently rubbed off on me.

I must also express my appreciation for all of the member volunteers who devote countless hours outside of their respective day jobs to promote and sustain our professional society. Lastly, all of us could not do our volunteer tasks without the steadfast and competent national staff under the excellent leadership of Executive Director James Plasker. They are truly the unsung heroes of our organization and I am truly grateful for their dedicated support, productivity, and commitment to ASPRS.

In June 1971 as an undergraduate student at the University of California, Berkeley, I was looking for part-time summer employment. For my interview, I walked into the Forestry Remote Sensing Laboratory in Mulford Hall, got the job as a "Lab Helper" and never looked back. I worked on and managed several remote sensing projects over the years, evaluating aerospace imagery for agricultural, forest, and rangeland resource inventories. Though many of my colleagues were members of ASPRS, I did not join until 1979 and I am not sure why. After 34 years of active membership, I regard my affiliation and allegiance to ASPRS as second nature and as important to my professional development today as it was in 1979 when I joined.

Not everyone views their relationship with our Society in the same light. We are addressing a declining, but now stable membership; fewer of us are doing a larger share of Society-related tasks, and some of us are expressing less professional satisfaction with our respective volunteer contributions while our day jobs become more stressful and uncertain.

A common refrain heard by many of us in national leadership positions is that ASPRS is no longer "relevant" to advancing one's career. What does that mean? Seldom do we hear a rational argument that substantiates this claim of irrelevance. Let's first ask the question, "What is a professional society?" We need to examine the nature of ASPRS and the relevance that our Society brings to our professional growth and personal satisfaction.



A professional society is an organization that advances the principles and body of knowledge of a discipline or field of study, addresses interests of individuals engaged in this discipline, and serves the public interest by conveying that body of knowledge in ways that sustain our communities. We can extend those general attributes to understand the purpose of ASPRS and why we should be engaged members of this particular Society.

ASPRS exists to advance the principles and ethical behavior of our geospatial profession, to address the interests of individuals and organizations engaged in a wide spectrum of geospatial science and technology, and to serve the public interest in matters of imaging and geospatial information for advancing knowledge, decision support, and management of Earth's resources. Our contributions and constructive engagement in our Society must be based on the need to gain a competitive advantage that we cannot gain solely through our employment, by the latest accession from a web site, or from colleagues and friends.

Given that we understand the nature of ASPRS as a professional society, let's address the question, "How is ASPRS relevant to me and to advancing my career?" To be relevant to our members and our profession, ASPRS must ensure connectivity to matters at hand, strive for practicality and applicability of geospatial science and technology, and strengthen proficiencies that satisfy needs of our clientele and enhances professional satisfaction. Relevance can also be judged by the degree to which ASPRS provides opportunities to learn, mentor, and network with our fellow professionals and students. This connectivity to matters at hand gives us individually and collectively the ability to share our knowledge and understanding with others who have the interest and power to make a difference. Relevancy of ASPRS can also be demonstrated by our ability to provide practical solutions that can be readily applied to a range of problems from routine to complex and to generate an awareness and understanding of geospatial data and information for addressing urgent environmental and societal issues. The degree to which we are successful in this endeavor will dictate the growth and sustainability of our organization.

Our strategic plan is the primary mechanism by which this relevancy is sustained. As a scientific and educational organization, our strategic plan captures the essential elements that define who we are. Without elucidating the specific objectives of our plan here, we develop scientific and technical programs to advance our geospatial profession in many ways. We also develop and deliver education and training programs for the imaging and geospatial information community, primarily through our publications, conference programs, certification, and on-line technical webinars and seminars. Our plan also specifies that we exercise our fiduciary responsibilities to ensure the continued financial stability and organizational resiliency of ASPRS.

Strategic planning is a vital tool for any organization, but it only provides a structural framework for what needs to be done, those actionable items that put into practice the basic tenets of our organization. This need to formulate and implement actionable items is best expressed by a quote from the famed industrialist, Henry Ford:

"You can't build a reputation on what you are going to do."

– Henry Ford

In order to create and assign actionable tasks to elements of our strategic plan and to address issues of societal relevance, the ASPRS Branding Task Force was created in 2011. The outcomes of this task force were conveyed by President Bobbi Lenczowski in her Presidential Address last year. The key insights derived from the Branding Task Force survey that was administered to a wide spectrum of elected leaders, members, and Headquarters staff, included the following:

- **Make our Conferences more productive**
  Persistent questions continue to focus on cost and technical content of our conferences, and increasing pressure is being applied by many organizations to limit travel to technical meetings. We need to be more creative at delivering technical content that balances both in-person and virtual, on-line approaches.
- **Examine options for organizational restructuring**
  Survey feedback indicated that we need to consider more locally-based technical programs that help limit the need for expensive travel while capitalizing on geospatial expertise and business opportunities within regions or groups of neighboring regions.
- **Advance Technical Division and Standing Committee efforts locally**
  There is a disconnect between technical programs developed and delivered at the national level and those at the regional or local level. Opportunities exist for local leaders to learn from and coordinate technical programs based on annual workplans of our Technical Divisions and selected Standing Committees. These workplans are posted on our intranet site in matrix format for reference and periodic updates (intranet.asprs.org).
- **Address name and tag line recognition**
  Concern continues to be expressed about our name, uncertainty relevant to the definition and practice of "photogrammetry," and apparent lack of visibility of GIS as a programmatic element of ASPRS. We have elected not to change our name but rather to de-emphasize our acronym (ASPRS) while emphasizing our tag line in correspondence and marketing opportunities: "ASPRS: The Imaging and Geospatial Information Society".
- **Fortify the value proposition for membership**
  The value proposition is an explicit statement expressing the rationale for joining and becoming engaged in professional society affairs. Society leaders and staff continue to express this value proposition in many ways that resonates with most members, but not all.

A psychological overlay to these issues that is expressed by members is the increasing trend that fewer of us regionally and nationally are assuming a higher proportion of work assignments to advance our Society's mission. This disproportionate assumption of responsibilities tends to build resentment, detachment, and indifference. Our oft-quoted industrialist, Henry Ford, had a remedy for this condition,

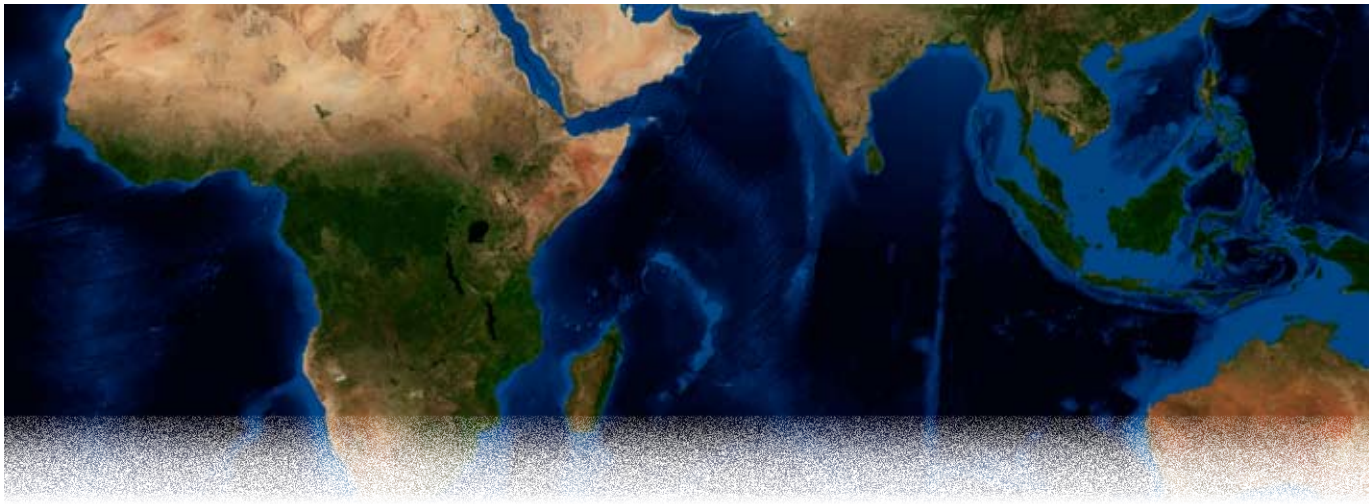
"Nothing is particularly hard if you divide it into small jobs."

– Henry Ford

This division of labor among more workers certainly advanced the automobile industry, and can help alleviate this condition within ASPRS. Key elements to make this division of labor successful are to delegate tasks more effectively to member volunteers, periodically and consistently monitor progress on assigned tasks, retain vigilance during chaotic times, and willingly change the course of the ship of state to find stronger winds.

To this end, the 2011 Branding Task Force transferred selected tasks to the 2012 Restructuring Task Force, which I chaired over the past year. The purpose of the ASPRS Restructuring Task Force (RTF) was to examine our current national and regional organizational structure and to generate specific recommendations and action items for Board consideration that sustainably advance the mission of ASPRS for the benefit of all members and the imaging and geospatial information community at large.

The vision of the RTF was focused on: (1) strengthening the relevancy our professional Society; (2) improving governance nationally and regionally; and (3) providing more learning,



networking, and mentoring opportunities. These goals can be achieved by delivering technical programs that implement the goals and objectives of our strategic plan, increasing the frequency of region-based technical programs coupled with emphasis on one annual national conference, promoting student and young professional engagement and leadership, and strengthening the impact of our peer-reviewed publications.

Specific restructuring issues addressed by the RTF included: (1) the philosophical basis, vision, and value proposition of ASPRS that can be articulated to the geospatial community and used as guidance for governance entities within our organization; (2) improvement of national and region officer/director training and governance; (3) modification of our organizational structure that encourages locally-based technical programming with incentives, virtual thematic affiliations of members within and between regions, and less reliance on physical geography and firm boundary conditions; (4) re-organization of our conferences and technical meetings that recognizes more diverse imaging and geospatial needs of our membership and audience locally and nationally; (5) enhancement of publication policies relevant to our *PE&RS* journal and general interest articles and columns; and (6) improvement of learning, networking, and mentoring opportunities for student, associate, and young professional members.

Specific recommendations for each restructuring issue were presented to the ASPRS Board of Directors during late March 2013 at our annual conference in Baltimore. With forthcoming feedback and guidance from the Board of Directors, we will have a strong road map to move our Society forward by addressing in earnest the concerns and recommendations from our members. I will share with you in a future issue of *PE&RS* the set of recommendations and action items judged by the Board of Directors to be appropriate for implementation. Accompanying these recommendations will be specification on which organizational entity within ASPRS should be responsible for implementing the recommended action items.

Let me conclude my remarks with a quote from Elie Wiesel, writer, political activist, and holocaust survivor,

"The opposite of love is not hate, it's indifference."

- Elie Wiesel.

The trait that is common to both love and hate is passion. There is no passion with indifference. If you love aspects of ASPRS, then you have the passion to strengthen those aspects to make our Society even stronger and more sustainable. If you hate certain aspects of ASPRS, then you have the passion to change what needs to be improved. With indifference, we have our greatest challenge.

To illustrate this point further, let me paraphrase a humorous anecdote from my mentor, Bob Colwell. A pastor queried members of his congregation on what they thought was the greater sin, ignorance or apathy. The response from one parishioner left the pastor speechless: "I don't know, and I don't care…" I am confident that our community of practice has the intelligence and compassion to advance our discipline in many tangible and intangible ways. I look forward to working with all of you to meet this challenge of indifference so as to ensure we grow and sustain our professional Society for many years to come.

Imagery courtesy of Reto Stöckli, NASA Earth Observatory.

Installation of Officers and Directors

The following were sworn in as officers of the ASPRS Board of Directors

Steve DeGloria as President

Lynn Usery as Vice President

Stewart Walker as President-Elect

The following were sworn in as members of the ASPRS Board of Directors

(l.-r.) Pierre LeRoux, Brian Murphy, Haluk Cetin, John Trunkwalter, and Thomas J. Young

2012-2013 Executive Director Report

by James R. Plasker

[**Editors Note**: A brief summary of this report was delivered by Mr. Plasker at the ASPRS Awards Luncheon and Installation of Officers on March 26, 2013 in Baltimore, Maryland.]

As I begin my sixteenth year as Executive Director there are many highlights from the past year I would like to share with you. Before I start, let me express my continued appreciation for the support that the officers, Executive Committee, Board, and the staff have provided during this important time in our Society's existence. Without the many extremely good ideas, and the extra effort afforded by each of these groups, the past year would not have been anywhere near as productive.

This report, as in previous years, will highlight accomplishments and address issues related to finances, ASPRS Foundation activities, headquarters office and staff development, information technology, programmatic changes, publications, and meetings and conferences. In addition, I would like to introduce the concept of the "ASPRS Enterprise" and summarize the overall health of that enterprise. If I have not addressed an item of your particular interest, please let me know and I will gladly provide you with additional information. Today I will focus primarily on the headquarters building status and the enterprise concept in the less than 20 minutes or so allotted for this presentation, but will provide a full report in the *Journal*.

Financial

During 2012 we continued to feel the somewhat delayed impact of recent economic headwinds. After twelve years in a row of not utilizing any of our operating Reserve funds, personnel changes at the company that sells our advertising, accompanied by that company's failure to actively engage the ASPRS community during the several months-long personnel transition period, led once again to significantly reduced advertising income and an operational shortfall for the 2012 ASPRS fiscal year. The continuing frustrations with the company's difficulties led to their replacement effective January 1, 2013. While transitions such as this are disruptive, and we do not take them lightly, we essentially had no recourse. The overall effect on the bottom line was a loss of approximately $100,000 over budget, causing us to again tap the Reserve fund to make up the shortfall. Unfortunately this transition will also have some lingering effect on 2013 as the new company ramps up, but we are hopeful that as we go through the year they will be successful and lay the groundwork for a solid 2014.

Even with these revenue challenges, we continued to set aside approximately $55,000 in separate accounts during 2012 for future capital investment purposes and to meet our quadrennial obligations to the International Society for Photogrammetry and Remote Sensing. Had we chosen to delay these investments, the 2012 operating shortfall noted above would have been reduced by more than 50%. We also moved approximately $70,000 to the Foundation in the form of matching donations and reimbursed administrative expenses; again, had the Board not elected to make those "investments" in another important element of our overall "enterprise" our operating shortfall would have been significantly reduced.

With respect to our Reserve Fund, the investment market was relatively positive during 2012, with the Reserve Fund experiencing a net gain of approximately $185,000; we ended the year with a balance of $1.7M in the Fund. One can think of the Reserve Fund as a giant "shock absorber" for our financial health, and once again it performed that function very well in 2012.

In other financial news, both accounts receivable and accounts payable remained essentially current throughout the year. Our budget and cash flow for 2013 look reasonably solid at this time with the exception of the effects of the above-mentioned advertising transition period and the potential impact of the Federal government budget sequester on our conference attendance here in Baltimore. As is the case every year, the results of this conference will be critical to our overall financial health in 2013, although due to the nature of the conference budget, decreased attendance does not directly translate into decreased net revenues.

Dues revenue leveled out during the most recent renewal period, reflecting stabilization in our membership numbers (see below) and renewal rates continue to hold in the mid- to upper-80% range. Numerous actions continue to be taken to strengthen our membership numbers, but without the help of existing members in reaching out to colleagues who benefit from the Society's activities and programs, it will be difficult to see significant increases in the near term.

In summary, this past year was financially one of the two most difficult in more than a decade, but we clearly benefited from prior year conservative fiscal planning and strategies, a very good reserve investment policy, a successful annual conference in Sacramento and, to a lesser degree, our fall 2012 conference in Tampa, Florida.

Membership

As mentioned earlier, the regular membership decline which had been apparent for several years appeared to abate at the end of 2012, with effectively a net change of 0%. Even with the recent declines, we are still at a level approximately equal to those onboard in 2000. Nevertheless, we remain concerned with the overall membership totals and must redouble our efforts to both retain existing and seek new members. We continue to convert members to Emeritus Member (lifetime member) status on a regular basis as our population ages—faster than we can acquire new regular members.

The Regions continue to focus on the membership issue, and during 2012 we also saw a 25% increase in the number of members stepping up to become active Member Champions. Historically, these Champions bring in an average of three or more members each annually, and without the 130 new members reached through this program we would have experienced a nearly 3% decline in our overall regular membership numbers rather than remaining essentially level. Clearly this program makes a huge difference, both for the Society as well as for those new members.

ASPRS Foundation

The evolution of the ASPRS Foundation continues to be a great success story! Since recovering the Foundation, we have increased the level of annual awards and scholarships from approximately $12K in 2004 to this year's total of $44K (365%) and the level of overall endowment of those awards has increased from approximately 20% in 2004 to over 97% in 2013. Each year from 2005 through 2012, the ASPRS Board and leadership moved to set aside funds to provide a 100% donation match in order to support continued emphasis on fully endowing our awards and scholarships. In addition, the Board also implemented the policy of defraying all administrative expenses of the Foundation during this period, thereby allowing every dollar contributed to the Foundation to be used to directly support awards and scholarships.

However, in recognition that the overall strategic goal of full endowment of our awards and scholarships at their target levels has essentially been accomplished, as well as recognizing that the overall size of the Foundation's financial holdings is now sufficient to support the Foundation's own administrative costs without unnecessarily burdening the awards program, the ASPRS Board decided for 2013 and future years that the matching of donations will occur at the 50% level, and that the Foundation will be expected to defray its own operating costs. The Board did, however, increase the recommended dues check-off amount from $25 to $35, and continues to fully support the mission of the Foundation.

The Foundation's investments continued to do well during 2012, with a net growth of over $200K from donations and investment returns. One additional ASPRS Region moved to investment their local awards and scholarship funds with the Foundation during 2012, bringing the total to three, so the Foundation continues to support not only ASPRS at the national level but at all levels in this very important program.

Today, the total funds invested in the Foundation exceeds $1.2 million; the minimum award level is now $2000; and three awards (Colwell Fellowship at $6,000, Moffitt Scholarship at $5,500 and Outstanding Technical Achievement Award at $5,000) now are at or above the $5000 level. Since 2004, more than 1600 individual donors have contributed to this success story, and many have donated repeatedly during this timeframe, making this not only a continuing financial success but one with broad community support. Clearly, by any measure, the re-acquisition and development of the ASPRS Foundation, together with the Society's matching-fund policy has been a huge benefit to ASPRS and the geospatial community.

Publications

In the area of publications, 2012 marked the long anticipated publication of the *Airborne Topographic Lidar Manual*, with Past President Mike Renslow serving as Editor-in Chief. In addition, work continued on the 6th edition of the *Manual of Photogrammetry*, currently at the printer, with Chris McGlone serving as Editor-in-Chief; and a major revision to the *Glossary of the Mapping Sciences* is underway, with David Alvarez as Editor-in-Chief. We hope to complete work on the *Glossary* by late 2014.

Our world-class journal, *PE&RS*, continues to do very well in technical content, while also remaining relatively financially stable although the advertising challenges mentioned earlier have taken their toll. We have periodically adjusted the number of pages to ensure a reasonable flow of refereed journal articles while minimizing backlogs. We continue to develop additional general interest material for the front portion of the *Journal,* have continued our requests for application-focused papers on a regular basis, and have expanded the amount of journal material available online to include pre-press refereed articles, the resource directory, and the annual report content. The *Journal* continues to be one of the most significant benefits for most of our members, and the ability to handle increased material, both in the peer reviewed section as well as the general articles, is very important to its vitality.

Headquarters Office and Staff Development

First, let me again remind you what a dedicated and hard working group the headquarters staff is—a situation with which both your officers and the Executive Committee are very familiar. They continue to work very hard to serve and support the Society's membership, the region and national officers, and the profession as a whole, and are a critical element in controlling costs and increasing revenues while delivering top-quality service. The current staff mix continues to be, I believe, the best it has ever been, with very compatible personalities, an excellent cross-section of expertise and experience, and remains very stable with no permanent personnel changes in 2012.

The headquarters office suite remains in very good condition, as does the Glascock Building. Early 2012 saw significant plans unveiled for development of the surrounding Renewable Natural Resources Center. The two major Center land owners, the Society of American Foresters (SAF) and the Renewable Natural Resources Foundation (RNRF), have agreed to sell significant portions of the property, pending County approvals, to include all but approximately 10 acres of the Center. SAF will continue to own and occupy most of the remaining 10 acres with the exception of that occupied by the Glascock Building Condominium, of which ASPRS is an approximately 23% owner. The Condo resident organizations, including the American Fisheries Society (AFS), The Wildlife Society (TWS), The Nature Conservancy (Maryland/DC Chapter) and ASPRS will continue to own their land and building.

What this development means is that, after several years of uncertainty, it appears that a plan has been finalized for the remaining 25 acres which will result in approximately 13 acres being utilized for attached single family housing and the remaining 12 acres being used for common purposes (recreation trails and legacy open space). The developer is a consortium of high-quality builders and developers with a solid track record in the DC metropolitan area, including several nearby communities, and has experience integrating existing office developments such as the Glascock Building into their local communities during the development process.

A number of required engineering studies are already complete, and the developers have gained general acceptance from the close-by neighborhoods. They are currently in the midst of the Montgomery County's approvals process, with an estimated final approval date of April 2014. Presuming approval is granted, demolition of the existing sister office building next to the Glascock Building (currently occupied by RNRF and a few other short-term lessees) will occur in late summer 2014, with general site development running into 2015. Housing units are expected to begin construction during that same period, with build out of the overall project projected for the 2018-2019 time period.

While we anticipate several intense months of construction-related disruption in the immediate vicinity of our building later in 2014, and an extended period of activity nearby from 2014 through build out, we believe at the end of the development the building will actually be well situated in the new community, will have a much more finished setting, and will benefit from several important infrastructure upgrades including improved underground utilities and parking area. Additionally,

the Glascock Condominium has already been funded to transition the building's south wall from temporary status (it was originally intended to be a common wall with another office building in the original RNRF concept) to a permanent structure. Similarly, the legal documents effecting the property ownership transition also provide for all four of the Glascock Building occupants to now own their suites outright (fee simple), something that ASPRS did in 2004 but which two of the other owners (AFS and TWS) were precluded from accomplishing by RNRF. This will provide for total control over the building solely by its occupants and RNRF will no longer have any involvement with the building.

Program Initiatives

ASPRS continues to address numerous policy issues at the Federal and State levels, and is proactively working to respond to areas of concern to the overall geospatial community. Consequently, ASPRS continues to maintain relevance as an organization with the combined voice of our membership being heard on a wide variety of subjects including moderate resolution imaging, licensure, certification, disaster response, and the industry forecast. ASPRS is also an active member of the Coalition of Geospatial Organizations (COGO), where Past President Carolyn Merry completed her term as Coalition Chair at the end of 2012, and through which we continue to provide input to key policy issues.

As the current Landsat satellites (5 and 7) close in on the end of their useful lives, moderate resolution land imaging data continuity remains a critical issue. I had the privilege, together with Treasurer Don Lauer and a number of our members, of witnessing the launch of the Landsat Data Continuity Mission (a.k.a. Landsat 8) on February 11, 2013. It was a glorious day at Vandenberg AFB, and the launch occurred right on schedule and with apparent perfection. Dr. Jim Irons' presentation during tomorrow's plenary session will provide additional details on the launch as well as the opportunity to view the first engineering image received from LDCM. Recognizing the success of LDCM and ASPRS' role in getting it this far is important.

However, even as the Landsat program continues to demonstrate critical relevance to numerous applications, we must redouble our efforts supporting the conceptual development of a long-term operational moderate resolution imaging program. ASPRS continues to challenge the Hill and the Administration to address this issue; clearly it is critical that the U.S. government transform the current "one by each" approach for launching moderate resolution Earth observing platforms into an operational program which ensures continued availability of this critical asset.

As a follow-on effort to the previous update of the "Guidelines for Procurement of Professional Aerial Imagery, Photogrammetry, Lidar and Related Remote Sensor-based Geospatial Mapping Service," a companion "Guidelines for Procurement of Commercial Geospatial Mapping Products" has now been completed and approved by the Board. In addition, work has begun to bring the two documents together into a single document with a common introductory text. This effort is expected to be ready for community review later this year or early 2014.

Two major developments for our Certification Program occurred during 2012. The first involved the accreditation of the Program by the Council of Engineering & Scientific Specialty Boards (CESB), granted in January 2013 after a several year process. Although we needed to make a few minor changes to the Program, including replacing our previous point-based system for recertification with a PDH-based system, and designating our "provisional" certification with a title of "geospatial intern," the Program was determined to be in very good shape. This accreditation is the first in the geospatial field, and clearly sets the ASPRS Program apart from others in the community.

For the past several years, the ASPRS Evaluation for Certification Committee has also been advising a sister organization, the Coordinate Metrology Society (CMS), in their efforts to initiate their own certification program. CMS has its roots in ASPRS, having evolved in the 1990s from our members' activities in close range photogrammetry. Over the years the CMS technology has incorporated laser ranging into their applications, which are predominantly applied in the aerospace, shipbuilding, and automotive industries. CMS studied a number of alternate certifying bodies, and concluded that emulating the ASPRS Certification Program would be the quickest and most responsive path to their success. As part of those discussions, ASPRS has agreed to continue supporting the CMS program with administrative services, and the final CMS/ASPRS contract provides for significant financial benefits to ASPRS in addition to being able to remain closely associated with an overlapping area of our technical community.

August 2012 saw the ASPRS Delegation, led by President Bobbi Lenczowski, travel "down under" to Melbourne, Australia in order to attend the XXII ISPRS Congress and participate in the ISPRS General Assembly. Mike Renslow completed his term as ISPRS Treasurer during these meetings, and Dr. Marguerite Madden completed service as President of Commission IV (Geospatial Databases and Location Based Services). A number of our members presented papers and posters during the Congress, which was also accompanied by an exhibit in which ASPRS first revealed the completed *Lidar Manual* to the international community. During the General Assembly, Dr. Marguerite Madden was elected Vice President of the ISPRS Council for 2012-2016. In addition, Dr. Charles Toth was selected as President of ISPRS Commission I (Sensors and Platforms for Remote Sensing) for this term, and will host the Commission I Inter-Congress Symposium in November 2014 in Denver in conjunction with the ASPRS Pecora 19 Conference.

Clearly ASPRS continues to serve a critically relevant role, both internally within the geospatial sector and externally among the broader community to include the international arena. With members strategically positioned to inform and advise policymakers on a wide array of programs and activities, including through the National Academy of Sciences Mapping Science Committee, the National Geospatial Advisory Committee (NGAC), the University Consortium for Geographic Information Science, the NOAA Advisory Committee on Commercial Remote Sensing, as well as our presence in ISPRS, ASPRS is vital to advancing the geospatial sciences and technologies together with their related applications.

Meeting and Conferences

As we review the past year, the 2012 Annual Conference in Sacramento, California was a clear success, not only technically but financially. The proceeds from that meeting contributed significantly to our financial wellbeing for 2012. Clearly a great deal of the credit for the success of the conference must go to co-chairs Alan Mikuni and George Hepner, as well as their local conference planning committee.

This (2013) Annual Conference also appears to be a very strong technical meeting with many good presentations and excellent hot topic sessions; however, as mentioned earlier, we believe the registration level has been severely affected by the Federal budget sequestration and related travel reductions and restrictions. In fact, we even have fully-paid exhibit booths that will go unused by the agencies, and a number of our members employed by the government were denied even the opportunity to attend on their own time and expense. Clearly this is an unfortunate development, which likely

further isolates our government scientists and engineers. In any event, Conference co-chairs John Iiames and Dave Syzmanski, and the rest of the local team, appear to have done an outstanding job.

The 2012 fall conference, held in conjunction with MAPPS last November in Tampa, Florida, was also very solid technically and, while Hurricane Sandy affected attendance, financially it did better than budgeted. Co-chairs Gary Florence and Eric Andelin did an excellent job developing a robust program. We are headed to San Antonio, Texas this October for what should be a very good joint conference with CaGIS focused on emergency preparedness and response applications of the geospatial community.

We continue to operate a full slate of webinars and workshops. Workshop Coordinator Bob Burtch, working closely with Kim Tilley at headquarters, has developed a strong stable of webinar subjects. We are working to schedule approximately twelve of those throughout the year in a manner designed to minimize conflict with the onsite Workshop programs. In addition, we have developed a webinar targeted specifically to students on becoming a Geospatial Intern to encourage and enhance participation by our young and developing professionals in the Certification Program.

Next Spring we will be in Louisville, Kentucky for the very first time for what should be an excellent Annual Conference. We have been working with the Joint Agency Commercial Imagery Evaluation (JACIE) team, a collaborative group of representatives from the National Aeronautics and Space Administration (NASA), the National Geospatial-Intelligence Agency (NGA), the United States Department of Agriculture (USDA) and the United States Geological Survey (USGS), in the hopes of co-locating JACIE 2014 with this Conference. The Louisville meeting will be earlier in the year much like this one was (March 23-27), so please plan accordingly. Future annual conferences in Tampa, Florida (2015) and Reno, Nevada (2016) are also in various stages of planning and development.

The ASPRS "Enterprise"

Looking back, I believe many are aware that ASPRS went through a critical period in the late 1990s where the organization's finances became unstable, a number of programs including our publications became unsustainable, and our conferences were held jointly with ACSM, thus limiting our flexibility. Beginning in 1998 that all began to change; annual conferences were held as independent and financially successful events; changes to the financial management of the Society enabled us to recover our publications program; the efforts to complete the Building Fund drive were successful; an ASPRS Reserve Fund was established; and by 2004 what is now known as the ASPRS Foundation was recovered.

And while, for tax and legal reasons, great care is taken to ensure the independence and arms-length relationship between the Society and the Foundation, programmatically all of these activities are intertwined. For instance, the Society utilized the same donation matching strategy, previously used to accelerate the building fund, to match Foundation donations; both efforts required resources from the Society Reserve Fund. Similarly, the Reserve Fund is utilized to resource the publication of our books and manuals, an activity that is financially very cyclic with large expenditures followed by (hopefully but not always) ongoing sales which repay the original cost of publication. And without the benefit of "owning" our conference outright, we would not have had the resources to establish the Reserve Fund, support the Building Fund, or contribute to the Foundation.

If one thinks of all of the above-described activities, taken as a whole, as the ASPRS "Enterprise," then it is instructive to review how the overall combined tangible assets of the "Enterprise" have developed over the years. While the past few years have been challenging from an operational budget standpoint, the Reserve Fund investments have continued to perform very well, and the Fund functions as a huge "shock absorber" allowing us to continue our publications, expand our awards and scholarships, and remain programmatically healthy even during times of economic uncertainty. One of the best ways of visualizing the "Enterprise" concept is to track these vital tangible assets from the Society's critical inflection point in the 1998 timeframe through the present – see Figure 1.

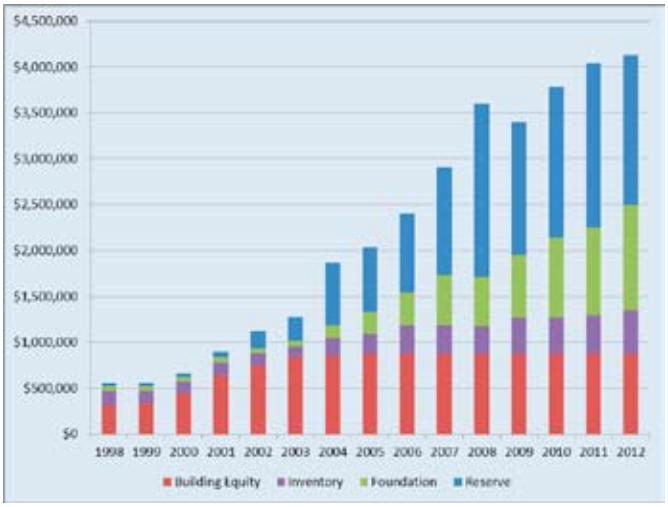


Figure 1. State of the "Enterprise" Net Tangible Assets

In 1998, there were essentially no reserve funds, the building was only half paid for, the inventory was relatively low and largely consisted of out-of-date publications, and the Foundation was under the control of five separate geospatial organizations with only a very few dollars set aside for the ASPRS awards. (Then) Treasurer Mike Renslow has even characterized the size of the Society's financial obligations/debt as nearly equal to the tangible assets at that time—a situation that was precariously close to bankruptcy, even though non-profit organizations do not typically qualify for that term.

Fast forward to today, and the Reserve Fund has grown to $1.7M; our office suite was paid off years ago thanks to the generosity of our members and is conservatively valued at $870K; the inventory was purged and is being actively managed so that only those publications meeting strict marketable criteria are included yet, along with work in progress, is valued at nearly $500K; and the Foundation was recovered and, thanks to the generosity of our members together with the Society's matching policies, holds funds in excess of $1.2M. Even after the downturn in the Nation's economy in 2008-2009, clearly the state of the "Enterprise" is strong.

In Conclusion

In summary, 2012-2013 has been a challenging yet very good period for ASPRS. We continue to make excellent progress programmatically, and seeing the Foundation effort fully underway and our awards and scholarship program growing in size and strength is very rewarding. ASPRS continues to provide strong support to our publications, outreach and public affairs, and continuing education, all adding to the importance and relevance of ASPRS in the geospatial community. Thank you again for all of your support—I look forward to another very productive year.

Awards and Scholarships

The following awards and scholarships were presented at the ASPRS 2013 Annual Conference in Baltimore, Maryland. Awards for Outstanding Papers, Professional Achievement, Service and Region activities are determined by committee selection; scholarships and academic awards are also determined by committee selection but are chosen from among current applications. For details on the application process, see: http://www.asprs.org/ASPRS-Awards-and-Scholarships.html. The complete text of the 2012 Awards Program is available on the ASPRS website at http://www.asprs.org/memberships/scholarship.html

ASPRS Honorary Member

2013 Recipients: Clifford W. Greve and Vincent V. Salomonson

(l.-r.) Cliff Greve with ASPRS President Bobbi Lenczowski

Clifford W. Greve, retired as Senior Vice President, Science Applications International Corporation (SAIC)

(l.-r.) Vince Salomonson with ASPRS President Bobbi Lenczowski

Vincent V. Salomonson, a Research Professor at the University of Utah

Donor: The ASPRS Foundation

ASPRS Outstanding Technical Achievement Award

(l.-r.) Clive Fraser with ASPRS President Bobbi Lenczowski

2013 Recipient: Clive Fraser, Honorary Professor of Infrastructure Engineering, Program Science Director, Cooperative Research Center for Spatial Information, and Professional Fellow, Department of Infrastructure Engineering, University of Melbourne, Australia. Dr. Fraser received the award for his development and production of the digital camera calibration program "*Australis*."

Donor: The ASPRS Foundation

The Photogrammetric (Fairchild) Award

2013 Recipient: Christian Heipke, Full Professor and the head of the Institute of Photogrammetry and GeoInformation at the Leibniz University Hannover

Dr. Heipke received the award in recognition of his major contributions to the science and art of photogrammetry. His contributions include advancing the transition from analytical to digital photogrammetry, significant achievements in object extraction from digital imagery and image matching, progressing the introduction of softcopy systems, and, more recently, helping to reinforce the essential connection between photogrammetry and computer vision.

Christian Heipke

Donor: The ASPRS Foundation and Lockheed Martin

Boeing Award for Best Paper in Image Analysis and Interpretation

(l.-r.) Don Vance of Boeing presented the Boeing Award to Joseph Mullen

2013 Recipients: Jan Svejkovsky, W. Lehr, Judd Muskat, George Graettinger and Joseph Mullin for "Operational Utilization of Aerial Multispectral Remote Sensing during Oil Spill Response: Lessons Learned During the Deepwater Horizon (MC-252) Spill," *PE&RS*, 78 (10), 1089-1102.

Donor: Boeing S&IS Mission Systems through the ASPRS Foundation

The John I. Davidson President's Award for Practical Papers

Mike Renslow accepted the Davidson Award on behalf of Gregory Burgess

First Place: Mark R. Shortis and G. Burgess for "Photogrammetric Monitoring of the Construction of a Solar Energy Dish Concentrator," *PE&RS*, 78 (5) 519-527.

Second Place: Rongfu Tang, Dieter Fritsch, Michael Cramer, and Werner Schneider, "A Flexible Mathematical Method for Camera Calibration in Digital Aerial Photogrammetry," *PE&RS*, 78(10): 1069-1077.

Third Place: Jan Svejkovsky, W. Lehr, Judd Muskat, George Graettinger and Joseph Mullin, "Operational Utilization of Aerial Multispectral Remote Sensing during Oil Spill Response: Lessons Learned During the Deepwater Horizon (MC-252) Spill," *PE&RS*, 78(10): 1089-1102.

Donor: The ASPRS Foundation

Yearbook

ERDAS Award for Best Scientific Paper in Remote Sensing

(l.-r.) Huifang Li received the Second Place award from Brad Skelton of ERDAS

First Place: Caiyun Zhang and Fang Qiu for "Mapping Individual Tree Species in an Urban Forest Using Airborne Lidar Data and Hyperspectral Imagery," *PE&RS*, 78 (10), 1079-1087.

Second Place: Huifang Li, Liangpei Zhang, Huanfeng Shen, Pingxiang Li for "A Variational Gradient-based Fusion Method for Visible and SWIR Imagery," *PE&RS*, 78 (9), 947-958.

Third Place: Elizabeth Heller, Jeanine Rhemtulla, Sharachchandra Lele, Margaret Kalacska, Shrinivas Badiger, Raja Sengupta and Navin Ramankutty for "Mapping Crop Types, Irrigated Areas, and Cropping Intensities in Heterogeneous Landscapes of Southern India Using Multi-Temporal Medium Resolution Imagery: Implications for Assessing Water Use in Agriculture," *PE&RS*, 78 (8), 815-827

Donor: ERDAS through the ASPRS Foundation

The Esri Award for Best Scientific Paper in GIS

Yurai Nunez-Rodriguez and Jesse L. Thé

1st Place: Yurai Nunez-Rodriguez, Michael A. Johnson, Igor Raskin, and Jesse L. Thé for "Computing Non-Crossing Smooth Contours on Triangulated Meshes," *PE&RS*, 78 (7), 703-714.

Sinan A. Abood

2nd Place: Sinan A. Abood, Ann L. Maclean, and Lacey A. Mason for "Modeling Riparian Zones Utilizing DEMS and Flood Height Data," *PE&RS*, 78 (3), 259-269.

3rd Place: Zachary J. Christrman and John Rogan for "Error Propagation in Raster Data Integration: Impacts on Landscape Composition and Configuration," *PE&RS*, 78 (6), 617-624.

Donor: Esri, Inc. through the ASPRS Foundation

The Talbert Abrams Award

Grand Award: Craig Glennie for "Calibration and Kinematic Analysis of the Velodyne HDL-64E S2 LiDAR Sensor," *PE&RS,* 78 (4), 339-347.

First Honorable Mention: Keith F. Blonquist and Robert T. Pack for "Network Orientation Using the Scaled Orthographic Projection for Parameter Initialization," *PE&RS,* 78 (5), 505-517.

Second Honorable Mention: Wenkai Li, Qinghua Guo, Marek K. Jakubowski, and Maggi Kelly for "A New Method for Segmenting Individual Trees from the LiDAR Point Cloud," *PE&RS*, 78 (1), 75-84.

Donor: The ASPRS Foundation

Craig Glennie

Robert E. Altenhofen Memorial Scholarship

Hui Ju

2013 Recipient: Hui Ju is a doctoral candidate at the Ohio State University, Department of Civil and Environmental Engineering and Geodetic Science, with a specialization in photogrammetry. He has an extremely strong background in photogrammetry, geomatics and computer vision. He has three refereed publications and numerous other papers. He proposes to apply lidar geo-referencing for earth-imaging applications. He has two excellent academic letters of recommendation, has served as a graduate research associate, and has been very active professionally. His faculty advisor is Professor Dorota Grejner-Brzezinska.

Donor: The ASPRS Foundation.

Abraham Anson Memorial Scholarship

Colin Axel

2013 Recipient: Colin Axel is studying for his Bachelor of Science degree in Imaging Science at the Rochester Institute of Technology (RIT), Rochester, New York. Axel has been the recipient of several academic honors, awards and scholastic achievements. He is an excellent student, as evidenced by his high 3.95 GPA earned in his undergraduate studies. Axel has been on the RIT Dean's List and recipient of the RIT Computing Medal and Carlson Imaging Award. He is the recipient of several scholarships namely, the Goldwater Scholarship, the RIT Presidential Scholarship, the RIT Honors Program Scholarship, the Nathaniel Rochester Society Scholarship, the Omnova Scholarship and the Jerry G. Hughes Memorial Scholarship. Axel has gained excellent experience as an undergraduate research and teacher's assistant in digital image processing.

He expects to graduate in 2013 and plans to continue his studies at the Imaging Science PhD program at RIT.

Donor: The ASPRS Foundation.

John O. Behrens Institute for Land Information (ILI) Memorial Scholarship

2013 Recipient: Benjamin Adams is a person who exemplifies the pursuit of learning and spirit of excellence which were hallmarks of John Behrens. Adams demonstrates the commitment, dependability and motivation of Mr. Behrens and his own passion in preparing himself for a career in surveying and engineering. Adams is an excellent student with an outstanding grade point average. His goals include completing his academic studies with a top-ranking and pursuing a professional career in surveying and engineering. Adams has been active in local student professional organizations and has received recognition for leadership and outstanding achievement. It is with pleasure that the 2013 John O Behrens ILI Memorial Scholarship is awarded to Benjamin Adams of Ferris State University.

Donor: The ASPRS Foundation from funds donated by the ILI.

Robert N. Colwell Memorial Fellowship

Xiaolin Zhu

2013 Recipient: Xiaolin Zhu is a PhD candidate in the Department of Geography at The Ohio State University. He holds a BS degree in Resource Science and Engineering and a Master's in Civil Engineering from Beijing Normal University. His early research included use of NDVI time-series data to develop a knowledge-based approach to mapping farming intensity and also to detect changes in vegetation phenology in China.

Zhu's dissertation research focuses on developing new methods for mapping forest composition and modeling forest function in the Appalachian Ohio region using satellite remote sensing and ecosystem modeling. A primary goal of his research is to improve or develop algorithms for producing high-quality remotely sensed images with both high spatial and temporal resolution for natural resource applications. Two of Zhu's other accomplishments are also highly original and important. The Scan Line Corrector on the Landsat ETM+ sensor failed in 2003, resulting in significant data gaps that limit use of post-2003 Landsat-7 data. Zhu developed an innovative geostatistical approach to fill the pixel gaps that occur in the data. His technique works to improve upon existing techniques, especially in heterogeneous environments. He also developed a simple but very accurate and robust algorithm to remove thick cloud contamination on Landsat images, which is a common and serious problem with optical imagery. Upon graduation in 2014, Zhu will seek a tenure-track faculty position focusing on research with opportunities to teach remote sensing.

Donor: The ASPRS Foundation, from funds donated by students, associates, colleagues and friends of Robert N. Colwell.

William A. Fischer Memorial Scholarship

2013 Recipient: Matthew D. Cross, currently a PhD student in an interdisciplinary PhD program in the College of Engineering and Applied Science at the University of Denver, has been selected to receive the 2013 William A. Fischer Memorial Scholarship. Cross

Mark Stanton accepted the award for Matthew D. Cross

is being presented with this award in recognition of his significant academic accomplishments and very impressive record of research and teaching in the application of remote sensing to environmental problems. Cross's research is highly interdisciplinary; calling up fundamental and applied climatology, meteorology and remote sensing to map and monitor the vegetation cover in industrial forests across North and South America. Cross's approach will incorporate multi-temporal and multi-scale remote sensing datasets to allow us to better understand the environmental implications of these activities.

Donor: The ASPRS Foundation through individual and corporate contributions in memory of William A. Fischer.

The GeoEye Foundation Award

Sergey Reid

2013 Recipient: Sergey Reid is an undergraduate student in the Geographic Information Science program at Texas A&M, Corpus-Christi. Reid has been selected to receive a GeoEye Foundation data grant for his work on hydrodynamic model calibration through the application of satellite imagery and GIS. His research will take advantage of available high-resolution satellite imagery to verify coastal inundation predictions computed by a hydrodynamic model. The Coastal Modeling System (CMS) hydrodynamic model was implemented and optimized for the Texas Coastal Bend area to predict water levels and currents. The significance of coupling the model with satellite imagery is that it provides a new and efficient approach to verifying the model against the observed water/land conditions. Not only does satellite imagery provide a broad view of the inundation area, it also provides an accurate time stamp, which can be matched with the time stamp of the model's prediction output. With the model output fitted to the satellite imagery for the same prediction/observation time, statistical analysis will be conducted to determine the model's prediction accuracy. The requested satellite imagery will allow the method to be extended to other selected areas along the Texas coast, particularly those regions that are prone to significant inundation (due to storm surge as well as regular tides).

Donor: The GeoEye Foundation through the ASPRS Foundation

Francis H. Moffitt Memorial Scholarship

2013 Recipient: Andreas Torsvik is an undergraduate student at California State (Fresno) pursuing a degree in Geomatics Engineering. He is an active student member in both the ASPRS and ACSM student chapters and a member of numerous academic honor societies while maintaining a 4.0 grade point average. He attended the ASPRS an-


Andreas Torsvik

nual conference in 2012 and plans to apply for the ASPRS Geospatial Intern Certification in both the Photogrammetrist and Remote Sensing Scientist tracks in the spring of 2013. His professors have been quoted as saying that, "He is keen, honest, hardworking, and has also shown great interest in serving the program and field of Geomatics in general," and also "One of the strongest points in Andreas is his ability to understand and solve mathematically-oriented engineering problems very easily. He is one of the brightest students I have in the class. I expect a bright future for him in Geomatics Engineering."

Donor: The ASPRS Foundation from funds donated to the Foundation from former students, associates, colleagues and friends of Francis H. Moffitt.

The Kenneth J. Osborn Memorial Scholarship


Kerri J. Crowder

2013 Recipient: Kerri J. Crowder is pursuing a Bachelor of Arts degree in Geography (geographic information systems emphasis) from the University of Alaska at Fairbanks (UAF) and plans to graduate in December of 2013. Following her BA, she intends to continue her education at UAF applying her outstanding scholarship towards the pursuit of contributing further to the geospatial science field. Crowder exemplified the Osborn qualities of communication and collaboration through leadership of activities within the UAF campus and Alaska Satellite Facility (ASF) communities by serving as a science consultant to the public, and through her participation in the Alaska Chapter of ASPRS. She has represented both ASF and ASPRS at external gatherings. Her faculty advisor is Dr. Cary de Wit.

Donor: The ASPRS Foundation from funds donated by the friends and colleagues of Kenneth J. Osborn.

Ta Liang Memorial Award


Nishan Bhattarai

2013 Recipient: Nishan Bhattarai was selected based on his academic achievements, planned program of research-related travel, and extracurricular activities. Bhattarai is a PhD student in geospatial information science and engineering at the State University of New York College of Environmental Science and Forestry. He earned an MS in forestry, focused on remote sensing, hydrology and GIS, from Auburn University (2010), and a BS in forestry from Tribhuvan University, Nepal (2006). His current research uses remotely sensed data to estimate evapotranspiration (ET) and map invasive species, with a particular focus on exploring the influence that such species have on the hydrology of natural ecosystems. Bhattarai's doctoral research builds from his master's studies at Auburn, which used a modified surface energy balanced algorithm to estimate evapotranspiration in the southeastern U.S. Bhattari aims to create an improved algorithm for estimating ET that integrates historic Landsat 5 Thematic Mapper and Moderate Resolution Imaging Spectroradiometer (MODIS) data using multiple linear regression models. His current project is focused on analyzing remotely sensed ET rates from invasive and native vegetation in the southeastern U.S., comparing ET from invasive Melaleuca and native plants in the Florida Everglades to analyze potential hydrological impacts of such invasion in the southeastern swamps. The Ta Liang travel grant will support field visits to Florida to collect data for model calibration and validation, and to engage with local research partners.

Bhattarai has excelled as a student at both the undergraduate and graduate levels. His research uses remote sensing tools to do rigorous science that has direct applications to solving environmental problems. He has also been involved in a range of extracurricular efforts related to science outreach and environmental restoration. Bhattarai is a truly deserving recipient of the Ta Liang Memorial Award.

Donor: Individual and corporate contributions to the ASPRS Foundation in memory of Ta Liang.

Z/I Imaging Scholarship


(l.-r.) Jean Gardiner of Z/I Imaging presented the Z/I Imaging Scholarship to Sergio Bernardes

2013 Recipient: Sergio Bernardes is being presented with this award in recognition of his academic achievements, the outstanding nature of his current research and his future career goals pertaining to the practical application of photogrammetry and related technologies. Bernardes, who is pursuing his PhD in Geography with a Certification in Geographic Information Systems from the University of Georgia, has demonstrated sustained academic excellence in his area of primary research including innovative analysis and visualization of time-series remote sensing images, ground-based climate data and indices of vegetation productivity to assess biotic responses to changes in temperature and precipitation. Practical applications of his results include assessments of vegetation affected by natural and anthropogenic changes, food security, agricultural production and ecosystem adaptation in dynamic environments. In addition to his focus on academics, Bernardes has continued to serve in key leadership roles within both the ASPRS and IEEE community.

Donor: Z/I Imaging though the ASPRS Foundation

International Educational Literature Award

2013 Recipient: Kyrgyz State University of Construction, Transport and Architecture (KSUCTA), Department of Geodesy and Geoinformatics, Kyrgyzstan offers curricula in Geomatics at the graduate and undergraduate levels. With limited internet capabilities, a lack of geospatial text materials, and a focus on instruction in English, the

materials of the IELA award will be beneficial to the geoinformatics program. Kyrgyzstan is a developing area with limited resources available to provide current content, technological developments, and fundamental teaching materials for University students and professors. The award materials will provide students with the opportunity to include current journal articles and books into course work and the materials will allow professors access to current technology advances for inclusion into class programs. The IELA will provide a unique opportunity for a much needed infusion of knowledge and literature to the Department of Geodesy and Geoinformatics at Kyrgyz State University of Construction, Transport and Architecture.

Donor: the ASPRS Foundation from funds donated by ASPRS members and participating sponsors through contributions to the ASPRS Foundation.

ASPRS Outstanding Service Award

2013 Recipients:

The Guidelines for Procurement of Commercial Geospatial Mapping Products Committee, Charles Mondello, Chair; and committee members Mark Baker, Becky Morton, Marvin Miller, Brant Howard, Kari Craun, George Southard, Jeff Lovin, Mike Ritchie and Paul Harwig for their efforts to develop the draft guidelines.

(l.-r.) Charles Mondello, Jeff Lovin, Becky Morton, Marvin Miller and George Southard

Mike Renslow

Mike Renslow, for his service as Editor-in-Chief of the *Lidar Manual*, his efforts to achieve accreditation for the ASPRS Certification Program, and his service as ISPRS Treasurer, 2009 – 2012.

Chris McGlone

Chris McGlone for his service as Editor-in-Chief of the *Manual of Photogrammetry, 6th Edition*.

George Y. G. Lee for his service as Technical Editor of the *Manual of Photogrammetry, 6th Edition* and his dedicated efforts to fully endow the Francis H. Moffitt Memorial Scholarship.

Donor: The ASPRS Foundation

ASPRS Ford Bartlett Award

2013 Recipients:

(l.-r.) Michael Krimmer and Katarina Doctor

Dr. James B. Campbell– Potomac Region
Katarina Doctor– Potomac Region
Dr. Michael Krimmer– Potomac Region
Prof. Jonathan Li– At Large

Donor: the ASPRS Foundation. (This award was originally sponsored by the firm of Lockwood, Kessler, and Bartlett, Inc.)

SAIC Estes Memorial Teaching Award

Doug Stow

2013 Recipient: Douglas A. Stow is a Professor of Geography at San Diego State University (SDSU) and received his BA, MA and PhD degrees in Geography from the University of California, Santa Barbara (UCSB). While at UCSB he served as a teaching assistant and lecturer in the Department of Geography and staff research assistant for the Geography Remote Sensing Unit. Stow has a distinguished record of funded research that has emphasized the application of multi-temporal remote sensing image analysis for analyzing land surface changes and dynamics. This has included research on ecosystem processes and habitat monitoring in the Arctic tundra, Mediterranean shrub land, coastal salt marsh landscapes, urban land use dynamics, coastal circulation and sediment transport, as well as technical studies on image registration, change detection and object-based image segmentation and classification. He is the author or co-author of 120 refereed publications. Many of these articles are co-authored with his graduate students, who he guides through the peer-review publication process and who normally serve as first author. Stow has twice received the ASPRS Leica Geosystems Award for Best Scientific Paper in Remote Sensing. He has been instrumental in helping to create a student chapter of ASPRS at SDSU and has led successful student recruitment drives. He has also assisted in the establishment of the Volunteer Hazard Mapping Corps, a group of student volunteers who are certified to provide remote sensing and GIS support during natural hazard events in San Diego County.

Donor: Science Applications International Corporation (SAIC) through the ASPRS Foundation

ASPRS Outstanding Workshop Instructor Award


William Farrand

2013 Recipient: William H. Farrand, PhD, has been active in the ASPRS workshop/webinar program since the annual meeting in 1999. He has developed, either individually or with a collaborator, three different hyperspectral workshops: Processing and Feature Extraction, Data Processing, and Phenomology and Data Processing. Additionally, Farrand has been one of the early participants in the ASPRS webinar program and he has given this program a number of times in the last couple of years. His workshops are well attended and the participants give very positive feedback on his courses and comment on his knowledge and background. With over 20 years of experience in hyperspectral remote sensing, Farrand has been proven to be an expert in the field. Like other workshop authors, Farrand works hard to share his vast knowledge and experience. For his activities in the workshop and webinar programs, Farrand is a fitting recipient of this award.

Donor: The award is administered by the ASPRS Foundation from funds donated by ASPRS members and participating sponsors through contributions to the ASPRS Foundation.

George E. Brown, Jr. Congressional Honor Award


Gary Florence (l.) and Jim Plasker (r.) presented the Brown Award to Senator Jack Reed

2013 Recipient: In the 110th Congress, **Senator Jack Reed** (D-RI) introduced S. 1938, a FEMA flood mapping reform bill. It included provisions such as acquiring current and accurate elevation data using state-of-the-art mapping technologies (lidar) and services, mapping by watershed instead of political boundary, and re-establishing the Technical Mapping Advisory Council (TMAC). Reed's reforms were included in the FEMA bill enacted into law in 2012. P.L. 112-141 included reauthorizing the Highway and FEMA Flood programs into the "MAP-21 Act." The bill also included provisions led by Reed to require National Flood Insurance Program rate maps to use "the most accurate topography and elevation data available."

The elevation provisions effectively provide a specific Congressional authorization for the 3DEP program USGS is launching. This is significant because neither the NSDI, The National Map, nor IFTN were ever specifically authorized by Congress. As a result, they either floundered or never got adequate funding. Most importantly, Section 100220 Develops a funding strategy to leverage and coordinate budgets and expenditures, and to maintain or establish joint funding and other agreement mechanisms with other Federal agencies and units of State and local government to share in the collection and utilization of geospatial data among all governmental users, and specifically mentions OMB, FEMA, USGS, NOAA & USACE. Section 100121 includes a NAPA study on how FEMA can improve interagency and intergovernmental coordination on flood mapping, including a funding strategy to leverage and coordinate budgets and expenditures and establish joint funding mechanisms with other Federal agencies and units of State and local government to share the collection and utilization of data among all governmental users.

This bill is unprecedented and is a model for geospatial coordination, as well as an innovative way of funding inter-agency and intergovernmental geospatial requirements.

Donor: The ASPRS Foundation

Col. Claude H. Birdseye President's Citation


Outgoing President Bobbi Lenczowski received the Birdseye Award from incoming President Steve DeGloria

2013 Recipient: Roberta E. "Bobbi" Lenczowski

Donor: ASPRS Foundation

ASPRS Fellow Award

2013 Recipients: George Y. G. Lee and Charles Mondello

George Y. G. Lee, National Product and Service Lead for Orthoimagery within the U.S. Geological Survey National Geospatial Program


Charles Mondello

Charles Mondello, Deputy Chief Technical Officer at Pictometry International

Donor: the ASPRS Foundation

Paul R. Wolf Memorial Scholarship


Ryan Sheridan

2013 Recipient: Ryan Sheridan was presented with this award in recognition of his outstanding academic credentials and his plans and enthusiasm to become an education professional in Surveying, Mapping, and Photogrammetry and related fields. Sheridan is currently a PhD candidate (planned graduation: Spring, 2014) in Agriculture and Life Sciences, Department of Renewable Natural Resources at the Texas A&M University in College Sta-

tion, Texas. Sheridan has demonstrated his continued interest, dedication, enthusiasm, and aptitude to become an education professional and has been recognized at all levels for this. The committee wishes Sheridan much success and is confident that his current and future education efforts will continue to make important contributions to the Surveying, Mapping and Photogrammetry community.

Donor: the ASPRS Foundation from funds donated by the friends and colleagues of Paul R. Wolf.

BAE Systems Award

Min Chin (l.) received the BAE Award from Stewart Walker of BAE

2013 Recipient: Min Chen, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, Hubei, China, for "Robust Affine-invariant Lines Matching for High Resolution Remote Sensing Image"

Donor: BAE Systems Foundation through the ASPRS Foundation

ASPRS Conference Management Awards

2013 Recipients: Conference Co-Chairs: John S. Iiames, Jr. and **David L. Szymanski**

Conference Technical Program Co-Chairs: David M. Johnson and **Claire G. Boryan**

(l.-r.) Dave Johnson, Claire Boryan, John Iiames

Donor: The ASPRS Foundation

Presidential Citations

2013 Recipients:

Gary Florence for serving as technical program co-chair for the Fall 2012 ASPRS/MAPPS meeting and for his service as the ASPRS Delegate to the Coalition of Geospatial Organizations.

Eric Andelin of **MAPPS** for serving as technical program co-chair for the Fall 2012 ASPRS/MAPPS meeting

Adam R. Benjamin for his motivating enthusiasm and outstanding leadership of the Student Advisory Council.

(l.-r.) Gary Florence, Billie Plasker, Eric Andelin, Carolyn Merry, Adam Benjamin, Kim Tilley, Steve DeGloria and Don Lauer

Steve DeGloria for his service building a workable agenda for the Ad Hoc Restructuring Committee, for enabling constructive discussion with ASPRS Region representatives, and for conducting teleconferences with his committee drawn from across membership.

Don Lauer for his unsurpassed volunteer service as National Treasurer of ASPRS

Carolyn Merry for her sustained volunteer representation of ASPRS on the National Academy of Sciences Mapping Science Committee and at the University Consortium for Geographic Information Science meetings.

Kim Tilley and **Billie Plasker** for support with the ISPRS Congress exhibit in Melbourne, Australia.

Donor: The ASPRS Foundation

ASPRS Region the Year Award

First Place: Northern California Region
First Honorable Mention: Western Great Lakes Region
Second Honorable Mention: Potomac Region and Saint Louis Region

(l.-r.) Alan Mikuni, Lorraine B. Amenda, and Becky Morton

Donor: The ASPRS Foundation

Yearbook

ASPRS Region Newsletter of the Year

Mark Stanton from the Rocky Mountain Region

First Place: *The Rocky Mountain Compiler,* Rocky Mountain Region
Second Place: *Wavelengths,* Columbia River Region
Third Place (tie): *The NCR News*, Northern California Region

Donor: The ASPRS Foundation

Region Website of the Year

Jim Peters from Eastern Great Lakes Region

First Place: Eastern Great Lakes Region
Second Place: Rocky Mountain Region
Third Place (tie): Western Great Lakes Region

Donor: The ASPRS Foundation

Student Assistantship Grants

Patrick Adda
Adrian Aguirre
Renaldo Arroyo
Adam Benjamin
Raechel Bianchetti
Ivan Detchev
Jessica DeWitt
Bliss Jacobs
Yitong Jiang
Hui Ju
Jenna Kovacs
Jennifer Lattea
Kayee Leung
Brittany Mabry
Daniel Ortega
Kunwar Singh
Mingshu Wang
Christopher Witt

Donor: The ASPRS Foundation