“Anticipating what the industry needs.”

– Daniel Twarog, NADCA President
Letter from the President

Dear Die Casting Professional:

Last year was a good year for the die casting industry. We are still climbing out of the deep recession from 2008-09, but many of the end markets that die castings served were up in 2013. The auto industry has led the way in bringing North American manufacturing to the forefront of the economy and the die casting industry has benefited because it was well positioned to provide what the OEMs needed: highly precise, repeatable, parts which can be produced economically. NADCA took that model and applied it to the products and services it offers the industry.

NADCA too had an exceptional year that was capped off by the Die Casting Congress & Tabletop in Louisville, KY. A record number of die casting industry professionals attended the three day event and rated it as one of the best shows ever. NADCA has focused their services to the industry and provided information, data and insight on trends. In this annual report you will read about the different ways NADCA is adopting to the changing methods of education and communications in the world today. We are anticipating what the industry needs and developing solutions that can help.

Besides a member of NADCA staff visiting every Chapter in 2013, we also visited over 65 die casters and suppliers, spoke at 13 other events and communicated directly with over 2000 different people in the die casting industry worldwide. NADCA brought technology from Germany and Australia through its webinars broadcast live from those countries. NADCA also participated in technology exchanges in China, India, Brazil, Italy, Spain, and Malaysia. NADCA is seen as the premier die casting association around the world and its members from North America are respected as high technology operations.

Technology is developed through research and NADCA was instrumentally involved in projects on lean manufacturing, nanotechnology, multi-layer die coatings, and additive manufacturing in 2013. The technology developed, along with the existing knowledge base, was communicated through weekly webinars, custom in-plant courses, and our magazines (both printed and electronic). In addition to the technology of die casting, NADCA added informational opportunities in the areas of Interfacing with OSHA, Conflict Minerals, I-9 Compliance and many other management topics that are becoming more and more relevant to understand when running a successful die casing operation. Impacting regulations in these areas and others is also something NADCA did in 2013.

NADCA was involved in defeating the NRLB (National Labor Relations Board) poster ruling, challenging the LME (London Metal Exchange) on the application of the NASAAC contract, and weighing in on the need for a national energy policy. This coming year will see NADCA impacting the proposed OSHA – I2P2 (Injury Illness Prevention Program) requirements, working with other groups to pass a national tool storage law, and provide resources to the EPA as they craft GHG compliance documents. Impacting the direction Washington, D.C. takes on important manufacturing related issues has proven to be a cost-effective use of NADCA resources.

NADCA resources will continue to be used wisely and we are thankful for the phenomenal membership support given to the association. My staff and I look forward to working with the industry in providing the quality products and services that make us the premier die casting association worldwide.

Thank you,

Daniel Twarog, President
North American Die Casting Association
Those Who Lead

NADCA Board of Governors

Robert P. Dathe, Chairman  
A & B Die Casting Inc.

Eric Treiber, Vice Chairman  
Chicago White Metal Casting Inc.

John R. Walker, Secretary/Treasurer  
Walker Die Casting Inc.

NADCA 2013 Executive Officers & Terms

Andrew D. Behler, 2012-2014  
Blue Ridge Pressure Castings Inc.

Robert D. Black, Jr., 2011-2013  
DY-KAST Supply and Equipment Inc.

Paul Brancaleon, 2011-2013  
Premier Tool & Die Cast Corp.

Scott Bull, 2012-2014  
Pace Industries – Corporate Office

Scott A. Frens, 2012-2013  
Fort Recovery Industries Inc.

Harold J. Gerber, 2013-2015  
Shiloh Industries, Inc.

Patrick J. Greene, 2012-2014  
Cascade Die Casting Group Inc.

Frank C. Haney, 2011-2013  
Team Technologies

William Hiegel, 2013-2015  
Custom Alloy Light Metals Inc.

Robert Hopkins, 2013-2015  
Empire Die Casting

Bernard Jaeger, 2012-2014  
Shiloh Industries, Inc.

Mike M. Jurcic, 2013-2015  
Craft Cast Engineering Inc.

John D. Littler, 2013-2015  
Littler Diecast Corp.

Alan Loeffelman, 2012-2014  
Production Castings Inc.

Mark Los, 2011-2013  
BuhlerPrince Inc.

Robert Malarky, 2013-2015  
Chicago White Metal Inc.

RCM Industries Inc.

Mark J. Marshall, 2011-2013  
Chem-Trend Ltd Partnership

David P. Rawlings, 2013-2015  
Mo-Tech Corp.

Joseph Vitollo, 2012-2013  
ABCO Die Casters Inc.

Robert E. Wilson, 2011-2013  
Callen Manufacturing Corp.

Ryan Winter, 2011-2013  
Eastern Alloys Inc.

David S. Wolf, 2013-2015  
A Finkl & Sons

Ube Machinery Inc.

www.diecasting.org/dce
Planning for the Future

NADCA Mission

NADCA is committed to promoting industry awareness, domestic growth in the global marketplace and member exposure.

Strategic Areas of Concentration

Chapter Relations:
Foster community and local business relations, attend speaker and networking events, influence both association direction and industry change.

Research and Development:
Identify industry needs and expand funding sources that optimize die casting processes and techniques.

Education:
Present industry knowledge for creating improved die cast parts and processes, incorporating the latest standards and educational curriculum.

Meetings and Expositions:
Provide public and networking opportunities to develop customer relations and position association members as leaders in die casting.

Marketing:
Bring business and engineering focus to die casting as the process of choice.

Membership:
Provide member base with industry news, technical information, promotional activities, networking and referral opportunities and trade events.

Government Affairs:
Foster strategic alliances and increase grassroots efforts to effectively bring industry matters directly to leaders in legislature and Washington.

Globalization:
Assert NADCA’s member die casters’ presence in the global and domestic markets.

As the industry’s trade association, NADCA represents a range of companies directly and indirectly involved in the die casting industry including captive die casters, custom die casters, suppliers, OEMs and job shops. In the past 10 years, the number of die casting plants in North America has decreased, however the number of Corporate Memberships is the highest it has been since the recession hit hard in 2008.

In fact, we are pleased to bring attention to these 21 companies that joined the ranks of NADCA Corporate Membership in 2013: Dyersville Die Cast – Div. of Joseph L. Ertl Inc.; AmTech International; Pacific Die Casting Corporation; Ultraceal America; PECO Manufacturing Company; Swiss-Tek Coatings Inc.; M & I Machine; Thomas & Betts Montereyy; PiQ2; Trafignura AG; FT Precision; SDC Incorporated; Gibbs Die Casting Corporation; Secat, Inc.; Mag-Tec Casting Corp.; Sanyo Special Steel Co. Ltd.; Proto Labs; Cuprum SA De CV; ASSA Abloy-Interlock; GW Smith – a Quaker Chemical Company; and, Blasch Precision Ceramics.

Despite the growth, the Association did lose 12 Corporate Member companies in 2013, for reasons such as closures, acquisitions, and diminished focus on the die casting industry.

Individual Membership took a small dip of 4% in 2013. The membership growth rate has been slowly and steadily recovering since hitting its lowest point in 10 years back in 2009. In addition to membership taking a hit by the recession, some loss can be placed on the baby boomers that are reaching their retirement years and leaving the industry. NADCA is focusing on evolving its technology in order to appeal to the Generation Xers and Millennials through outlets such as Facebook, Twitter and NADCA Apps, as well as the Membership Plus program. It is also believed that NADCA’s return to hosting die casting-only congress and trade shows will continue to spur Corporate and Individual Memberships.

NADCA’s Membership Plus program reached its one year anniversary in May 2013. The program is a membership upgrade that offers quarterly webinars, downloadable technical publications, engineering calculators and an online technical community for interacting with other North American-only engineers. The Plus Program continues to grow and add value-added enhancements.
NADCA Chapters – Membership at a Local Level

NADCA membership and resources are represented across the country through the efforts of its 15 active area Chapters. The regional Chapters hold local meetings, host social events and organize plant tours. Active chapters are located in:

- 3 Michigan
- 5 Chicago
- 6 Cleveland
- 7 New York
- 9 Central NY
- 10 Ontario
- 12 Wisconsin
- 14 S. Ohio
- 15 Southeastern
- 16 Minnesota
- 17 St. Louis
- 25 Indiana
- 29 South Central
- 30 Los Angeles
- 39 SW Michigan

NADCA staff strove to reach every chapter across country in order to present the current state of the industry at chapter meetings, as well as the benefits of NADCA membership. Staff successfully visited every Chapter and held a State of the Industry Presentation at 13 out of 15 Chapters with over 300 attendees collectively. Additionally, Chapter 3 and Chapter 12 both hosted NADCA training events. Chapters receive a special rate for hosting NADCA training and in turn, may charge their attendees what they feel is a reasonable price for courses. Some chapters even offer free courses to members in good standing.

Hoping to spur on membership interaction and education, NADCA provides its chapters (in good standing) a rebate program, based on total membership. In the past, funds were held in an account at NADCA to be applied for educational courses. However, the Membership & Chapter Relations Committee decided in 2013 that the use of the credit should be expanded to include more NADCA products and services. In 2014, these credits can be applied toward the following:

- As credit toward a Chapter course.
- Credits can be assigned to individuals from the Chapter to use on any NADCA education course.
- Credits can be used on NADCA publications.
- Credits can be used (up to $100/person) on any NADCA-run conference (Government Affairs, Executive, Plant Management, and/or Marketing)
- Credits can be used on registration to the NADCA congress (up to $100/person)
- Credits can be used by the Chapter for any idea that they believe has merit, provided they get approval from NADCA’s President.
The research portfolio at the beginning of 2013 consisted of 12 projects with a total leveraged value (direct funding plus cost share) of $3,455,000. During the year, three projects were completed and three new projects were initiated. Due to the difference in the value of the completed projects and the newly added projects, the total leveraged value of the portfolio increased to approximately $4,600,000 by the end of the year. The projects that were completed are: Thin Wall Zinc, a CMC Energy-SMARRT project; Characterization of T5 Heat Treating of 380 Die Castings Phase II, a NADCA funded project; and, Die Material Properties at 46-48 HRC, also a NADCA funded project. Of the three projects initiated during the year, two are NADCA funded - Characterization of T5 Heat Treating of 380 Die Castings Phase III and Cavitation Measurement using Acoustic Bubble Spectrometer - and one is National Additive Manufacturing Innovation Institute (NAMII) funded - Qualification of AM Processes and Procedures for Repurposing and Rejuvenation of Tooling. The increase in funding level this year is primarily due to this new NAMII project. Sources of funds in addition to NADCA and NAMII for the current projects are: the Department of Defense (DOD) through the Defense Logistics Agency (DLA) Troop Support, Philadelphia, PA, the DLA Logistics Operations, J335, Research & Development, Ft. Belvoir, VA, and the American Metalcasting Consortium (AMC); and the Department of Energy (DOE) through the Advanced Manufacturing Office (AMO), and the Cast Metals Coalition (CMC).

2013 Accomplishments – Several new technical webinars were presented in 2013 including shot sleeve washout, shot tips, optimizing PQ2, soluble cores, and a 4-part porosity management series. The porosity management series also resulted in a book for each part of the series and will be the foundation of a porosity management workshop to be offered in 2014. The NADCA Gating Software was converted to a web-based program and made available in the Membership Plus area of the website. Membership Plus also offered additional and exclusive technical postings and webinars. Additional steel manufacturer grades (one Bohler, two Daido, and one Hitachi) were added to the NADCA Special Quality Die Steel and Heat Treatment Acceptance Criteria for Die Casting Dies document. The 2014 Research & Development Strategic Plan and Roadmap Overview was published in the July issue of DCE Magazine. Transaction papers and presentations from the Die Casting Congress were published online. Lastly, four proposals seeking government funding for projects were prepared and submitted, each as a team effort. A proposal on dynamics of magnesium casting alloys was not selected by DOE, nor was a proposal on developing a light weight metal manufacturing center. A proposal on using additive manufacturing for repair and re-use of dies was selected for funding by NAMII resulting in the aforementioned new project. (NAMII is now going under the name of America Makes). The fourth, a proposal on industry technology road-mapping, was submitted to the National Institute of Standards and Technology (NIST), however, selections will not be made until Q2 of 2014.

The 2013 Die Casting Congress – There were 375 registrants for the congress portion of the Die Casting Congress & Tabletop which populated most of the 12 congress sessions with 50-115 attendees per session. Topics for the standard sessions included cast materials, die materials, computer modeling, advanced technologies, process control and process engineering, machine and equipment technologies, and injection systems and tooling. Three special format sessions, which included panel discussions, were on structural die castings, new technologies, and die welding. Several accomplishments and new developments were presented during the presentations. Based on the questions, lively panel discussions, audience interaction and feedback, the Die Casting Congress was very successful in transferring information to the attendees.

Aluminum Under 1 Lb  
**Ryan Quinn – Allied Die Casting Company of Illinois**  
*Strip Cut Stripper*

Magnesium Over .5 Lb  
**Rob Malarky – Chicago White Metal Casting, Inc.**  
*Light Engine Enclosure*
Meetings & Conferences – Networking With Your Peers

In 2013, NADCA conducted the Executive Conference, Plant Management Conference, Metalcasting Industry Government Affairs Conference, and Die Casting Congress & Tabletop.

The Die Casting Executive Conference was March 17-20, in Marco Island, FL at the Marco Island Marriott Beach Resort, Golf Club & Spa. The annual conference was a three day event that featured presentations on marketing to non-automotive OEMs, creating and sustaining a lean organization, energy savings, economic and financial market outlook, and improving results with a structured management process. The conference was well attended by both die caster and supplier executives.

The 2013 Plant Management Conference was May 15-17 at the Dayton Marriott in Dayton, OH. Special presentations included operating furnaces more efficiently, robot implementation ideas for the high pressure die casting engineer and state of the industry. Honda Manufacturing of America – Anna, Ohio Plant and Schaefer Furnaces hosted plant tours for conference attendees.

In 2013 the North American Die Casting Association (NADCA) hosted our Government Affairs Briefing in conjunction with the National Association of Manufacturers’ (NAM) 5th Annual Manufacturing Summit. The summit took place June 19-20 at the Hyatt Regency Hotel in Washington, D.C. Conference participants had 63 meetings with lawmakers and key staff. Pertinent issues such as concerns regarding the new energy policies, EPA regulations, tax reform, and several other issues that are important to the die casting industry were discussed.

The Die Casting Congress & Tabletop was held on September 16-18 at the Kentucky International Convention Center in Louisville, KY. The tabletop was met with great interest from the die casting industry. Sponsored solely by NADCA, the event attracted over 110 exhibiting companies and saw 780 attendees. An analysis of the registrants found more than 334 unique companies attending (after the 110 exhibiting companies were subtracted from the list). The papers and presentations exposed a variety of new technologies, case studies and success stories. The topics included advanced technologies, die materials, computer modeling, cast materials, die welding, equipment and process control, machine & equipment, die surface and injection systems & tooling.

In 2013 NADCA also held its biennial Marketing Conference in Louisville, KY, immediately following the Die Casting Congress & Tabletop. The Conference provided individuals interested in the sales and marketing aspects of the die casting industry with up-to-the-minute information on industry trends affecting today’s changing casting marketplace. Eight speakers addressed a wide range of information to help participants gain a better grasp of this rapidly changing marketplace.

2013 Die Casting Congress & Tabletop

Aluminum Die Casting Over 10 Lbs
Edward Wasowski – Microcast Technologies Corp.
Upper Dual / Lower Dual

Aluminum Die Casting Over 10 Lbs (Aluminum Structural Die Casting)
Wayne Murcott – JVM Castings Limited
B Pillars (Left and Right)
The marketing of die castings to the designers and purchaser continues to be at the forefront of the NADCA Marketing Committee. In 2013 the Marketing Committee’s activities included new programs to increase the number of leads generated for NADCA Corporate members and well as educate designers on the die casting process. In the spring of 2013 NADCA hosted a Design specific webinar series sponsored by Ace Precision International, Brillcast Inc., Cast-Rite Corp., Chicago White Metal Casting, Inc., DECO Products Company LLP, Fort Recovery Inc., Nebraska Aluminum Casting, Rangers Die Casting, Rheocast Company and Technical Die-Casting Inc. This series was promoted to a purchased list of OEMS and generated over 300 leads.

In addition, NADCA generated leads to die casters in the automotive market through purchasing an ad space in a Technical eNewsletter. This eNewsletter was distributed in October of 2013 and featured information on the free NADCA Die Casting Design Application. Features of this app include: Video Modules on Basic Die Casting Design, Product Specification Standards for Die Castings, Searchable Die Caster Database, Examples of Die Castings and Documents Detailing Commercial Practices. Sponsors from this event included the North American Casting Corporation, Premier Die Casting Company, Madison Kipp Corp. and Lakeside Casting Solutions. Over 80 leads were generated for this effort.

The Design Webinar Series as well as the Die Casting Design Application were made available on design website, driving additional traffic to this page. Over 48,000 pageviews were made from purchasers and designers of die castings, this number has increased by 3,000 views since last year. The website provided guidance on technical questions, where to find the right die caster, and common design standards for the industry.

NADCA also organized the International Die Casting Competition. Winning castings were displayed prominently at the 2013 Die Casting Congress & Tabletop in Louisville, KY. Since 1972, the competition has featured the top designed die castings annually. Nine winners in various categories were selected. Numerous publications and journals have requested information on the winners making this a great tool for industry as well as an excellent marketing tool for the winners. For more information on how to compete in the 2014 International Die Casting Competition please visit www.diecasting.org/castings/competition.

We continue to distribute press releases to our database of media contacts to draw attention to the die casting industry. Such releases include, Industry Scholarships, Safety Award Winners, Die Casting wages, Industry conditions and NADCA’s ongoing work with The Franklin Partnership who represent our interests in Washington. The Die Casting Design newsletter, which is distributed to over 5,000 designers twice a month, is yet another way NADCA informs the design community of die casting related news, opportunities and advancements. NADCA Die Casting Industry Marketing will continue creating new ways to generate leads and educating its members on new marketing practices.

### Magnesium Die Casting Over .5 Lb
Scott Braaten – Twin City Die Castings Company
Ultrasound System Electronics Enclosure & Power Supply Shield

### Aluminum Die Casting Over 10 Lbs (Squeeze Casting)
Aaron Nowak – Allied Die Casting Co. of North Carolina
Clutch Housing
Die Casting Engineer (DCE) magazine is distributed to all Individual Members, Corporate Members and subscribers. In 2013, more than 17,000 copies of Die Casting Engineer were in circulation, with an average of 2,400 people receiving each issue.

The magazine’s purpose is to act as a vehicle to promote the industry. It does so by featuring upcoming educational courses, conferences, industry news and technical articles submitted by the industry’s leading educators, scientists and suppliers. The past year featured numerous technical articles throughout the six issues. The themes for 2013 included furnaces & energy, zinc, die & plunger lubricants, quality control, computer modeling & simulation, magnesium, and advanced technologies & alloys.

DCE has its own website, located at www.diecasting.org/dce. The web site is designed for ease-of-use and to be very user-friendly. Visitors to the site can easily submit articles, news releases and comments, and order reprints of previous issues or single articles. Members and subscribers that visit the site can log in to view the entire current issue and a few previous issues.

Die Casting Industry LINKS finished its 11th year of publication for Corporate Members only and continued to provide a diverse content to satisfy the needs of many different levels of upper management, sales and marketing departments, as well as presidents and CEOs of die casting companies and suppliers.

Because the magazine only targets these individuals — the key contacts of all NADCA’s Corporate Member companies — much of the information is very sought-after and is available only to these companies. Recipients of LINKS look forward to the State of the Industry Report, in-depth industry marketing updates, Wage & Fringe Benefit Survey results, Financial Survey results and many other features stories addressing ways to improve a company’s bottom line. A large portion of LINKS content is derived from NADCA staff and another portion comes from business consultants, some involved with the industry and some from outside the industry.

Back in 2009, LINKS began to be printed and mailed in-house at NADCA. While this saved on the bottom line costs for the magazine, it still allowed for the same great content and articles that our readers look forward to each issue.

NADCA also regularly sends out its own eNewsletters. The NADCA Update eNewsletter is sent to over 8,000 different people weekly. The eNewsletter updates its recipients on news in the industry, news from NADCA, upcoming conferences and meetings, and new products and publications. It is a great way to easily stay connected to the die casting industry.
NADCA introduced several new or revised publications and software in 2013 that will continue to spread information and technology that is being developed. The following publications are new in 2013 and are currently available in NADCA’s bookstore:

- Extending Die Life: Maintenance & Welding Strategies (505)
- Master Die Casting Process Modeling (418)
- Marketing to Non-Automotive Die Casting Buyers 2013 (440-D)
- Porosity Management: Advanced Analysis (510)
- 2013 Wage & Benefit Survey (852)

With the continued growth of eReaders such as the iPad, Kindle and Nook, NADCA has begun the process of making various publications available on these devices. NADCA added 10 publications available for purchase on Amazon and iTunes in 2013. These publication can be purchased for just $9.99.

**Webinars – A Travel-Free Option for Education**

In 2013 NADCA expanded its webinar program by offering more webinars than ever before! This webinar program provides additional opportunities for individuals to obtain information without the hassle or cost of travel. In 2013 NADCA hosted over 60 webinars. Attendance for these webinars continues to be overwhelming, over 960 individuals registered for these webinars and it is estimated that over 5,000 individuals were in attendance.

New webinar topics included How to Make Die Casting Tooling Last Longer Webinar Series, OSHA - Controlling Noise in a Die Cast Shop, Advanced Die Design Series, Die Care and Maintenance Series, Part Finishing, Die Preparation Before Heat Treat, Salt Cores, Visual Inspection and topical webinars such as Conflict Minerals. A complete list of webinars NADCA has offered can be found at www.diecasting.org/education/webinars.

NADCA offered its popular Operator Training Webinar Series in the spring. This webinar attracted attendance of over 18 companies. In addition NADCA launched a new Porosity Management Series with registration of over 40 individuals. Porosity still remains NADCA’s most popular webinar topic to date.

Jeff Smith, Tooling Engineer/CI Coordinator, Pace Industries - Airo Division said, “At Pace Industries - Airo Division, we have found the various webinars presented by NADCA to be a great training resource. The material is presented by people who are very knowledgeable in the die casting industry. As a custom die caster of highly cosmetic parts, our workforce has to be constantly learning about all different aspects of the process. We purchase the video recordings so that all of our casting machine operators, supervisory personnel and engineers have the opportunity to view them when time permits or also to review a subject when a question arises. We feel that a well-educated workforce is critical to being successful and the webinars are a big part of our success”.

Currently over 90 webinars are scheduled for 2014 with roughly 50% being new topics. These 60 minute presentations not only address vital information on the topic but also provide adequate time for questions, answers, and discussion. NADCA looks forward to another rewarding year of webinar participation and is excited to be offering constant education via this easily accessible medium. To view or register for upcoming webinars visit: www.diecasting.org/webinar.
NADCA continued to improve certain website areas as well as launching a few new features.

The Technical Archives were injected with more content. LINKS magazine PDFs were added to the archive in 2013. NADCA also added previously unavailable presentations from congresses to the archive as well as the availability of power points for these transactions. In addition, NADCA worked on expanding Die Casting Engineer article offering, which will continue to expand in the first quarter of 2014.

NADCA launched the Die Casting Challenge in 2013. The Die Casting Challenge is an online testing program that assess the individual’s knowledge of various aspects of die casting. It then ranks participants among other participants to show how they stack-up against their colleagues.

Besides ranking among other participants the Die Casting Challenge helps to determine strengths and weaknesses. At the end of each test, based on performance, NADCA provides a variety of educational resources that will help the individual improve their ranking and overall knowledge of die casting. To participate in the Die Casting Challenge visit: www.diecasting.org/education/challenge.

NADCA Membership Plus, which grants access to Die Casting Solutions, an online community of information and resources, was updated with a number of added features. New membership plus exclusive webinars were added to the webinar archives. Plus members can access the recordings and presentations of these webinars at any time for easy viewing. A new gating calculation application, exclusive to plus members, was also added in 2013. This App calculates the geometry for straight fan gates, curved fan gates, and tangent gates. These are common geometries used to create a smooth transition from the main runner system to a die cavity ingate. The Gating Calculation App can be used to create the geometry for gates in several situations such as:

- A single gate with no additional information about the cavity.
- One or more gates feeding a single die cavity.
- Multi-cavity die situations with varying numbers and types of gates in each cavity.

NADCA will also release a new PQ² application to plus members in 2014.

What can members look forward to in 2014?
2013 was also a year of preparation for growth in terms of the NADCA website. Since the second half of 2013 NADCA has been working on a newly designed website, an upgrade to a new database and the implementation of a new web server. Efforts have been made to streamline the website’s content and create a sleek new look with new advertising options as well as a more user-friendly registration area for webinars and events.

A customizable, membership based, online education program is also in the works. NADCA is very excited to be able to offer all these new services to our members and will continue to keep our website, content and services relevant to your ever-changing and expanding needs.
Opportunities for Interns – Scholarships

The David Laine Intern and Scholarship Program was established in 1975, and requires that students complete an internship or co-op at a die casting company or a supplier to the die casting industry prior to applying for the scholarship. The prerequisite allows students to experience hands-on training in the die casting industry, with the hope that the learning experience will encourage students to continue on in the field after graduation. In 2013, NADCA recognized 17 students through the David Laine Intern and Scholarship Program. This is the highest amount of students that have been recognized in one year since the program’s inception, as well as the largest overall award given, with the scholarships totaling $41,250.

Scholarship winners cited experience gained in areas such as die casting machine re-builds, process development, quality engineering and die maintenance on their application essays. To learn more about 2013 winners, their studies and the projects they were involved, NADCA encourages you to visit: www.diecasting.org/scholarship/laine. There, one may also find information about how to apply, and steps to support the growth of this program. The scholarships provided by the Laine Fund are supported entirely by contributions and pledges from the die casting community.

The Steven J. Harmon Scholarship Program was established in 2005 by family members of Twin City Die Castings Company as a memorial to the company’s long-time leader and president. The scholarship program is administered by NADCA and recognizes Harmon’s 29 years of service to the family company and the die casting industry. Throughout his career, Harmon served on various industry boards, was an active committee member, had a strong voice in the die casting industry, and made numerous other time and financial contributions. His strongest characteristic was his heartfelt passion for the business.

The objectives of the scholarship program are: to stimulate an awareness and interest in the die casting industry; to provide financial assistance to a graduate student interested in a career in the die casting industry; to promote die cast technology through engineering education; and, to further education in the die casting industry. In 2013, the program awarded a $2,500 scholarship to Shaymus W. Hudson, a graduate student at Worcester Polytechnic Institute. Hudson exemplified the diversity of a Harmon Scholarship candidate and was commended for his work in the research labs at MGH and MIT, appointment to lab manager of the casting lab, being an educator as well as starting a blacksmith club. For more information, on scholarship opportunities, visit www.diecasting.org/scholarship.

NADCA congratulates the following students, universities and employers for their commitment to the die casting industry.

Steven J. Harmon Scholarship Program Winner:
Shaymus W. Hudson, Worcester Polytechnic Institute, Advanced Casting Research Center

David Laine Intern and Scholarship Program Winners:
- Jack Bossong, University of Illinois Urbana-Champaign, RCM Industries Inc. - Allied Die Casting Company - Franklin Park
- Jacob Bowerman, Purdue University, RCM Industries Inc. - Allied Die Casting Company - Franklin Park
- Christopher Carberry, University of Illinois at Urbana-Champaign, Cast Products, Inc.
- Kevin Coveny, University of Dayton, RCM Industries Inc. - Allied Die Casting Company - Franklin Park
- Alexander Daar, University of Arizona, RCM Industries Inc. - Inland Die Casting Company
- Adam Fettig, Marquette University, STRATTEC Component Solutions
- Craig Hart, Wright State University, Fort Recovery Industries Incorporated
- Tyler Holland, Wilkes University, Blue Ridge Pressure Castings Incorporated
- Caitlin Lahey, University of Illinois at Chicago, MAGMA Foundry Technologies Inc.
- Brendan Melnick, Purdue University, Chicago White Metal Casting Incorporated
- Samuel Moser, Missouri University of Science and Technology, Spartan Light Metal Products Inc.
- David Prorok, University of Illinois at Urbana-Champaign, North American Die Casting Association
- Josh Province, University of Cincinnati, Honda of America Manufacturing
- Thomas H. Ring, Tennessee Technological University, Walker Die Casting Incorporated
- Joseph Schwartz Jr., The University of Illinois Urbana-Champaign, RCM Industries Inc. - Inland Die Casting Company
- Lindsey Twarog, The Ohio State University, Empire Die Casting Company Inc.
- Daniel Winland, University of Dayton, Rimrock Corporation

$43,750 Awarded to 18 Students
Surveys & Statistics – Vital Resources

Surveys & Statistics Provide a Snapshot of the Die Casting Industry. NADCA conducted major surveys on Wages, Benefits, and Designer Opinions of the die casting industry in 2013. These surveys provide vital human resources and market information to all die casting operations. NADCA receives excellent participation from the industry and the buyers/designers of die castings in order to give accurate data and information. In addition to the major surveys, NADCA has a corporate member service that explores interesting facets of die casting operations called NADCA quick surveys.

Part of the decrease to education levels can be attributed to our webinar program. We launched webinars in 2011 and they have grown at a rapid rate in 2013. These hour long presentations typically run every week and cover topics many topics. Over 960 people registered for webinars in 2013 as compared to the 2012 attendance level of over 1,032 and 330 people that registered webinars in 2011. In addition to being able to participate in a webinar, the webinar presentations and recordings are subsequently made available for individuals to purchase.

In 2013 we launched the Online Die Casting Challenge which is intended to assist in assessing the education needs of Die Casting facilities. Over 70 people have competed in the challenge.

Surveys Conducted in 2013

- LME/NASAAC Contracts – who still uses them?
- ISO14000 – who is doing it and what does it cost?
- REACH-RoHs Standards – what are we doing to comply?
- Product Liability Insurance – can we be protected from end users law suits?
- Goosenecks – how can we overcome long lead times?
- Shot Tip Technology – who is using what and how long do they last?
- Worker’s Comp Insurance – how can we get lower premiums?
- Hydraulic Oil Consumption – who is the leakiest die caster?
- Quote Capture Rates – how many jobs do you actually get?
- Fall Protection – what are we doing to protect workers at height?
- Robotic Trim – who is trimming robotically and what techniques are being employed?
- Debris on Rafters – what are the best ways to clean debris?
- P-card – does anyone use the P-card and what are the transaction fees?

In 2013, NADCA saw a slight increase in education activity. An abbreviated schedule was run in the Spring and Fall for National Courses. National, Chapter, In-Plant, In-House, Train-the-Trainer and Online class attendance in 2013 totaled 730 students for 34 course offerings extended by NADCA. Twelve national courses were taught with 65 students, two Chapter courses with 32 students and 20 In-Plant courses with 386 students. The In-House Program was completed by 155 students at four facilities and 92 students completed online courses. NADCA licensee Southwestern Michigan College (SMC) continued to suffer in 2013. Not a single NADCA course typically offered through SMC was offered in 2013 due to lack of attendance. Therefore, the grand total for 2013 attendance was 730 as compared to 2012 attendance level of 628, 2011 attendance level of 950, 2010 attendance level of 404, 2009 attendance level of 449 and the 2008 level of 924. Online and In-Plant courses showed the largest increase and reached the largest number of individuals. The overall incline in activity was due to the improved state of the economy. With the economy and state of the industry projected to recover even more in 2014, attendance is expected to continue to recover as well.

Thirteen NADCA quick surveys were conducted in 2013 and the results answered questions ranging from hydraulic oil consumption to quote capture rates. Survey participation ranged from 30 to 60 die casting operations providing information/data for the surveys. The surveys conducted are listed to the right.

This coming year, NADCA will continue to post quick surveys and conduct its annual Wage & benefits survey. Additionally planned in 2014 will be an industry benchmarking study, an industry financial analysis, and a non-automotive end market assessment. We hope every die caster will participate in all these surveys because the value of the results is directly proportional to the level of responses.
Representing NADCA Members by:

• Providing timely information on federal legislation, laws and regulations that impact die casting operations.

• Advocating on die casting issues before Congress and key federal agencies.

• Educating Congress and federal agencies of the impact their decision-making has on the die casting industry.

• Arranging for lawmakers to tour die casting plants.

• Host the annual Government Affairs Briefing in Washington, D.C., arranging for die casters to directly lobby members of Congress on critical issues.

• Alerting members on important Emerging Issues and Opportunities.

• Writing columns and articles regularly in both the Die Casting Engineer and LINKS magazines on industry matters, federal issues and programs.

In 2013, NADCA began a new relationship with The Franklin Partnership (TFP) to act as NADCA’s new representation in Washington, D.C. They are tasked with developing Congressional connections for NADCA members among other items, including eNewsletter articles and the NADCA Government Affairs section in Die Casting Engineer magazine.

“Providing advocacy for issues affecting die casting is essential to the growth of our industry. NADCA’s partnership with The Franklin Partnership will provide us with in-depth support to make our voices heard before Congress and by key federal lawmakers. It is important for us to remind lawmakers that manufacturers are critically important to the economic growth of the U.S. and we look forward to working with TFP in our efforts to do so,” said NADCA president, Daniel Twarog.

The Franklin Partnership (TFP) is a bipartisan, Washington, D.C.-based government affairs consulting firm specializing in representing small, medium sized, and middle market manufacturers before Congress, the White House, and Federal Agencies. You can read more about The Franklin Partnership by visiting www.franklinpartnership.com.

NADCA’s views and positions are most important in the direction being taken by OSHA and EPA on a host of topics which directly and indirectly impact our industry. NADCA has continued to give OSHA-related webinars on PPE, noise, reporting, and general handling the situation if “OSHA comes knocking.” Webinars have become a popular way for NADCA to communicate with and educate its members and the industry as a whole. NADCA has continued to engage Kestrel Management Services, LLC in developing articles for our magazine(s) on topics which will help our industry understand what OSHA is emphasizing and how to prepare your facility. Similarly, NADCA is working to bring the same level of service on EPA issues. NADCA also brought the issues to Washington, D.C. in their industry specific briefing.

NADCA has been historically successful in obtaining funds for pre-competitive technology development that has resulted in changing the die casting industry. More research is needed and NADCA continues to educate the administration’s offices on how die casting technology development would help advance the goals of the nation.

Look for more of this focused activity of EPA monitoring, OSHA reporting and Research needs education being conducted in 2014. NADCA needs good stories from the industry and the people in industry to come to Washington, D.C. to tell their stories. NADCA urges its members to go to Washington, D.C. June 10-11 and to allow your voices to be heard at the Government Affairs Washington Briefing. NADCA Chairman Eric Treiber, President & CEO of Chicago White Metal Casting, Inc. has been attending the conference for years and calls it one of the most rewarding activities he participates in with NADCA.

NADCA spends almost 10% of the member dollar on Washington activities. This is a large percentage of your dues. Make that expense pay dividends, get involved in our Washington efforts.
Bottom Line – Financial Standing

NADCA continues to be a membership driven organization that is financially strong. In 2013, NADCA’s revenues and expenses ended near revenue neutral. NADCA did gain some ground on its investments due to the leadership of the Finance Committee and healthy gains in the stock market. NADCA’s investment policy is very conservative and helps to guard NADCA against future down markets.

NADCA has a similar revenue and expense forecast for 2014 and hopes to continue to receive modest gains from its investments. These gains have helped fuel additional member services and programs. The graphs on this page represent the percentage breakdown of the expenses and revenues for all of NADCA’s program and services. This breakdown does not include investment revenue.

2013 NADCA Expenses

2013 NADCA Revenue

Upcoming in 2014

• Advanced Operator Training Webinar Series
• Additional eBooks added to the Amazon and iTunes Library
• Launch Newly Designed Website
• Printed Capabilities Directory
• Printed Suppliers Directory
• 2014 Die Casting Congress & Tabletop in Milwaukee, WI
• Italy Delegation Trip
• Porosity Management Workshop
• Improved Technical Archives
• Government Affairs Briefing
• Plant Management Conference
• Company Education Portals