



CASTING CONNECTION

R&R Celebrates Sesquicentennial Anniversary!



R&R is proudly celebrating its 150th anniversary throughout 2022.

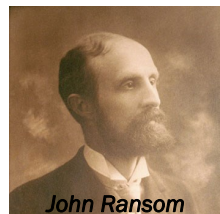
In 1872, John Ransom founded the company to provide supplies, instruments, and furniture for barbers, doctors, and dentists. His brother-in-law, Thaddius Randolph would later become partner and The Ransom & Randolph Co. was incorporated in 1892.

R&R has been dedicated to advancing the global investment casting industry, taking pride in providing foundries, dental labs, and jewelers with extensive process knowledge, exceptional technical expertise, and innovative product technology.

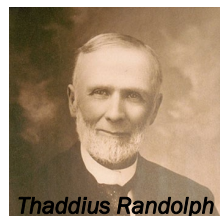
These commitments have allowed R&R to establish unique relationships with customers, creating loyalty and partnerships that have resulted in a vibrant 150-year-old business.

R&R looks forward to many more years of success ahead.

"We have achieved this milestone through the hard work and dedication of our employees and the culture of service that exists throughout the organization. We

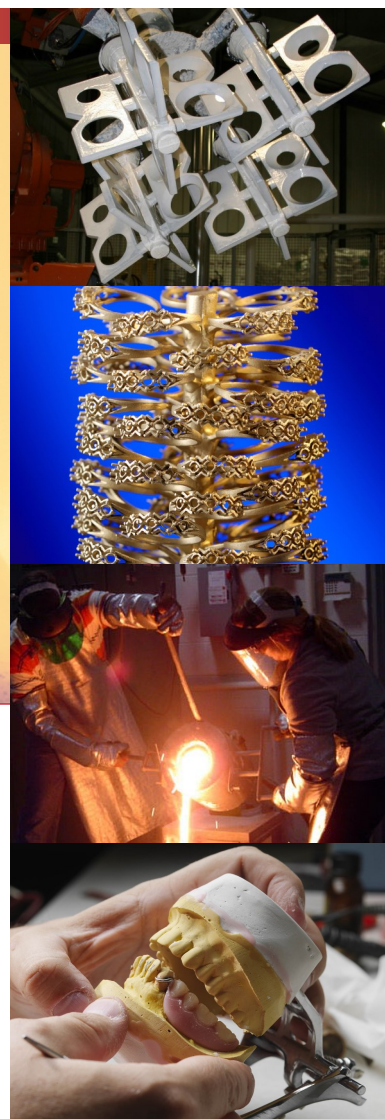


John Ransom



Thaddius Randolph

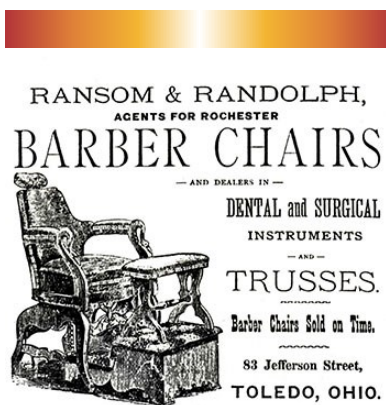
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R&R Celebrates Sesquicentennial Anniversary!

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have dedicated ourselves to 150 years of product innovation and manufacturing expertise to provide our customers with the highest quality products and services,” said Daniel Nixon, President.

“Throughout 2022, we will be looking at where we started, what we have achieved, and what our plans are for the future. We look forward to celebrating with you!”

As R&R kicks off its 150th year, we invite you to join in celebrating the milestone anniversary.

R&R will celebrate 150 years of business with events for customers throughout the year.

Follow us on [LinkedIn](#) and [Facebook](#) to participate in the celebration.

“We have dedicated ourselves to 150 years of product innovation and manufacturing expertise to provide our customers with the highest quality products and services.”



Save the Date: LMT® LAB DAY® Chicago

What: 37th annual LMT LAB DAY Chicago, the largest dental laboratory event in America

When:

- Thursday, February 24, 2022
 - Seminars: 7:00am - 7:00pm
- Friday, February 25, 2022
 - Exhibit Halls: 9:00am - 5:00pm
 - Seminars: 7:00am - 7:00pm
- Saturday, February 26, 2022
 - Exhibit Halls: 9:00am - 4:00pm
 - Seminars: 7:00am - 7:00pm

Where: Hyatt Regency Chicago, 151 E. Wacker Dr., Chicago, Illinois, USA

R&R Booth: N-2, West Exhibit Hall

Learn More: lmtmag.com/lmtlabday

Look for R&R at the show!



Where in the World are Ransom & Randolph?

In honor of our 150th anniversary, join us in taking our founders on a worldly adventure! Play along all year long for your chance to win 1 of 4 drawings!

— The Nitty Gritty Info —

1. Print & cut out Ransom or Randolph (available at: www.ransom-randolph.com/150years)
2. Take a picture of Ransom or Randolph anywhere around the world
3. Post your picture to [Facebook](#) or [LinkedIn](#)
4. Tag Ransom & Randolph
5. Hashtag: #RR150years (*you must use the hashtag to be entered in the contest*)

For every picture you post, tag and hashtag, you will be entered into a quarterly drawing where one lucky winner will win a **\$150 Amazon gift card!** 4 winners total – drawn and announced in March, July, September, and December 2022.

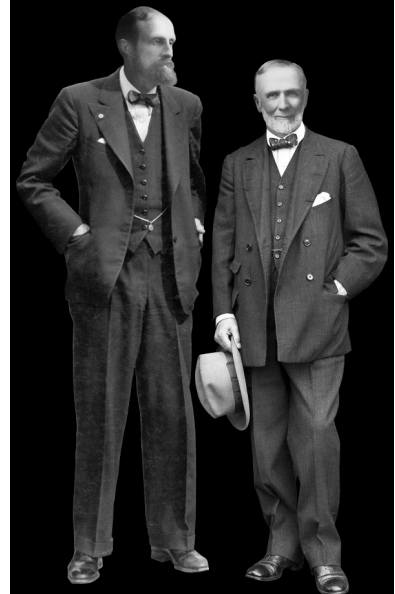
GOOD LUCK!

Please, no inappropriate pictures. Ransom & Randolph are gentlemen!

Social Media Contest

Let's see how far Ransom & Randolph can travel and what they can do!

January 1 – December 31, 2022



Social Media Contest

Bring Ransom & Randolph into the 21st century and join the celebration!

January 1 – December 31, 2022

Look for Ransom & Randolph at these tradeshows in 2022:

- Vicenzaoro/T. Gold
- LMT LAB DAY Chicago
- MJSA Expo
- 31st EICF International Conference
- LMT Lab Day West
- ICI 15th World Conference & Equipment Expo
- LMT Lab Day East



Let Me Get a Selfie with Ransom & Randolph!

In honor of our 150th anniversary, take a selfie with our founders! Play along all year long at any tradeshows we exhibit for your chance to win 1 of 4 drawings!

— The Nitty Gritty Info —

1. Stop by the R&R booth
2. Take a selfie with Ransom or Randolph in the R&R booth
3. Post your picture to [Facebook](#) or [LinkedIn](#)
4. Tag Ransom & Randolph
5. Hashtag: #RR150years (you must use the hashtag to be entered in the contest)

For every selfie you post, tag and hashtag, you will be entered into a quarterly drawing where one lucky winner will win a **\$150 Amazon gift card!** 4 winners total – drawn and announced in March, July, September, and December 2022.

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Save the Date: Vicenzaoro T. Gold 2022

What: T. Gold, the international show for machinery and the most innovative technologies applied to jewelry and precious metal processing will once again be staged at the same time as VICENZAORO January. The Show, specifically for sector operators, offers the chance to place your business in the running, underlining the inseparable link that binds creative skills with technologies, whose innovations now involve every level of the manufacturing process.

When: *NEW DATES:* March 17-21, 2022

Where: Vicenza, Italy

R&R Booth: Pavilion: PAD 9 Booth: 130

Learn More: www.vicenzaoro.com/en/t-gold

Look for R&R at the show!



Ceramic Shell Casting FAQ

Q. What refractory should I use?

A. This depends on the metal being cast. When casting a ferrous metal, a zircon slurry can be used for primary coats. In some cases, fused silica can be blended in as well. For non-ferrous metals, fused silica can be used in primary slurries, although even in these cases some zircon may be blended in as the density of the zircon will help the flow properties of the slurry. For backups, the typical choices are fused silica (Ranco-Sil™ fused silica) and aluminosilicates (Mulgrain 47, 60, 70).

Zircon

Zircon is a naturally occurring refractory mineral and is therefore subject to variability. It is chemically inert and is stable to very high temperatures. Zircon has a very high thermal conductivity and acts as a chill to eliminate metal mold reactions and burn-in, resulting in a smooth

cast surface. Zircon is available in both granular and flour form. Zircon is almost exclusively used in the primary slurry and as a primary stucco. Because of its high density, zircon provides excellent flow characteristics in a primary slurry. The round grains do not cause defects such as rough casting surfaces.

Ranco-Sil fused silica

Ranco-Sil fused silica is electrically fused, high purity silica. Fused silica is produced from a naturally occurring mineral and is therefore subject to variability. It has a low thermal conductivity and excellent thermal shock resistance. These properties, along with its low density, make it an excellent refractory for use in a ceramic shell mold. Ranco-Sil fused silica is available in both flour and granular forms. Ranco-Sil fused silica can be used throughout the ceramic shell. When used in the primary slurry, it may be necessary to blend with zircon depending on the alloy. Shells

constructed with fused silica hold their dimensions better and are not prone to hot deformation or bulging. Shell removal from the casting, or knockout, is also easier with fused silica refractories.

Aluminosilicate

Aluminosilicate is produced from a naturally occurring mineral, calcined mullite, that is precisely sized as either flour or grain. It is available in three alumina contents: 47%, 60% and 70%. The standard alumina content in the investment casting industry is 47%; which provides a very economical and consistent product. These products are low in iron, alkaline and alkaline earth elements. In the investment casting industry, the main use of aluminosilicate is in backup slurries and as a backup stucco. A wide variety of grain and flour sizes are available to fit your needs.



Save the Date: MJSA Expo 2022



Connect with the Future of Jewelry Making

MJSA Expo brings together the industry's most renowned trade suppliers and subcontractors to provide buyers — designers, manufacturers, trade suppliers, contractors, bench jewelers, retailers — with an unparalleled shopping experience.

What: The longest-running show for jewelry-making tools, technologies, supplies, and services

When:

- Sunday, March 20, 2022: 10:00 AM - 6:00 PM
- Monday, March 21, 2022: 10:00 AM - 6:00 PM
- Tuesday, March 22, 2022: 10:00 AM - 2:00 PM

Where: Javits Center | New York City, New York USA

R&R Booth: 223

Learn More: www.mjsa.org/events/mjsa-expo

Look for R&R at the show!

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shop.ransom-randolph.com

Social:



Ransom & Randolph



At R&R, *Investing with Innovation™* is more than just a slogan, it's a way of life. Dedicated to advancing the investment casting industry, we take pride in providing foundries with extensive process knowledge, exceptional technical expertise and innovative product technology. By coupling our revolutionary product developments with our experienced staff, manufacturing and warehousing facilities, we successfully help you become a casting industry leader.

R&R's core businesses are comprised of ceramic shell, industrial mold, jewelry and dental investment casting.

R&R takes great pride in providing customers with a pleasant procurement experience. R&R's Maumee, Ohio based customer service team services North America and US export customers. Our UK-based agent, HTM Tradeco, Ltd., provides service for the European Union. From initial order placement through delivery, R&R's customer service team takes responsibility for accurate and efficient processing of your material needs. As a result, R&R's customer service team is unmatched in the industry.

Investing with Innovation™