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March 2024

[www.padtinc.com](http://www.padtinc.com)

## Featured Stories

### 30 Years of Making Innovation Work

It is kind of hard to wrap your mind around three decades. So much has happened in every one of those years that just looking back and contemplating a fraction of the successes, failures, and day-to-day work of PADT is difficult. So why try?

Let's just celebrate it!

[Read More](#)



We will be celebrating our 30th Anniversary during our annual open house in October, Nerdtobberfest. Check out the [event page](#) to learn more and to sign up to save the day.

**Nerdtobberfest**  
**2024** 



## Pi Day and SandFest 2024

We had two fantastic team building events this month.

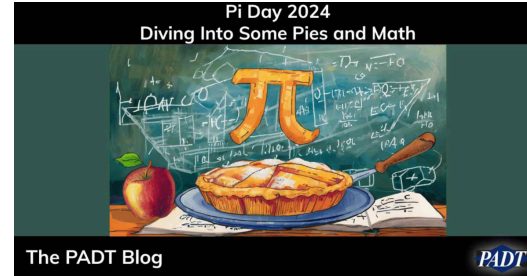
First, we ventured to the Children's Museum of Phoenix to play in a giant pile of sand for SandFest 2024. Our giant sand castle came in second this year. Fun was had by all.

[Read More](#)



Then we celebrated Pi Day on 3/14 with, what else, Pie and Math. We played with some AI image generators, competed for the coveted PADT Pi Day Plate with a new math quiz, and then ate way too much pie baked by our employees.

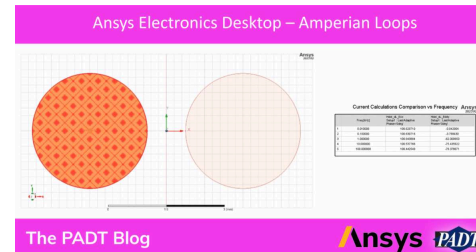
[Read More](#)



## Ansys Electronics Desktop – Amperian Loops

PADT's Tyler Buntin digs into electromagnetic simulation in Ansys Electronic Desktop to show how you can use the field calculator to find that enclosed current using the fields that Ansys Maxwell calculates for you!

[Read More](#)



## Customer Corner



**ZEVx Launches Mobile**



**Beehive Industries Conducts**

## Charging Units

ZEVx announced it will launch its Mobile Charging Unit (MCU) at the 2024 EV Charging Summit & Expo in Las Vegas on March 20-22. ZEVx MCU technology addresses the insufficient charging infrastructure that has slowed the adoption of electric vehicles.

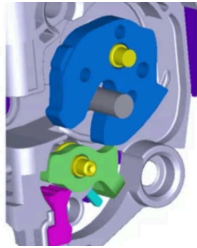
[Read More](#)

## First Fire Test of Turbojet

Beehive Industries turbojet demonstrator has passed its first significant milestone, first fire, at their headquarters in Denver, Colorado. The clean sheet design started just 16 months ago and has officially ignited and run under its own power for the first time.

[Read More](#)

## Featured Products and Services



### Simulation Product Ansys Motion

Ansys Motion, now in the Ansys Mechanical interface, is a third-generation engineering solution based on an advanced multibody dynamics solver. It enables fast and accurate analysis of rigid and flexible bodies, and gives accurate evaluation of physical events through the analysis of the mechanical system as a whole.

[Learn More](#)



### 3D Printer EOS M 400 Series

Thanks to the build volume of 400 x 400 x 400 mm and 1000-watt laser power, the EOS M 400 makes it possible to produce high-quality materials at industrial scales – directly from the CAD data and without tools. With a extensive portfolio of materials and process, the EOS M 400 supports a wide variety of applications.

[Learn More](#)



### Services SBIR/STTR Support

Over the years, companies and universities have come to PADT to leverage our design, test, and simulation experience in support of their engineering for their SBIR and STTR grants. We partner through the proposal phase, and after you are awarded your grant, we provide the resources you don't have in-house

[Learn More](#)

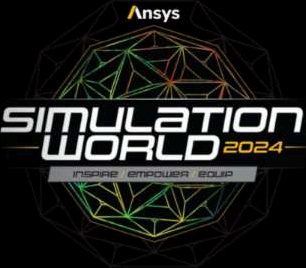


## Upcoming Events

- 03/27/2024 | **High Frequency Updates in Ansys 2024 R1 – Webinar**
- 03/27/2024 - 3/28/2024 | **2024 Arizona Space Summit**
- 03/28/2024 | **SAF Blue Carpet Event**
- 04/03/2024 | **Low Frequency Updates in Ansys 2024 R1 – Webinar**
- 04/03/2024 | **Venture Madness Conference + Expo 2024**
- 04/03/2024 | **Stratasys F3300: Game Changing Throughput – Webinar**
- 04/08/2024 - 4/12/2024 | **39th Space Symposium**
- 04/10/2024 | **Discovery Updates in Ansys 2024 R1 – Webinar**

- 04/22/2024 | Experience Stratasy's Truck Tour: Houston, TX
- 04/24/2024 | Structures Updates in Ansys 2024 R1 – Fracture, Dynamics – Webinar
- 04/24/2024 | Experience Stratasy's Truck Tour: Dallas, TX
- 05/07/2024 | Experience Stratasy's Truck Tour: Albuquerque, NM
- 05/07/2024 | Experience Stratasy's Truck Tour: Los Alamos, NM
- 05/14/2024 - 5/16/2024 | Simulation World 2024
- 10/23/2024 | PADT30 + Nerdtoberfest 2024

**WE ARE ATTENDING  
#SIMULATIONWORLD**



**Ansys** **PADT**

MAY 14-16, 2024



**Houston, TX**

04/22/2024 | 10:30 AM - 2:30 PM  
Spindle Tap Brewing Co  
10622 Hirsch Rd, Houston, TX

**Dallas, TX**

04/24/2024 | 10:30 AM - 2:30 PM  
Hop and Sting Brewing Co  
906 Jean St, Grapevine, TX

**Albuquerque, NM**

05/07/2024 | 10:30 AM - 2:30 PM  
National Museum of Nuclear Science & History  
601 Eubank Blvd, SE, Albuquerque, NM

**Los Alamos, NM**

05/09/2024 | 10:30 AM - 2:30 PM LANL  
115 N Main St, Los Alamos NM

**Register**

## Space Available



A portion of a suite in PADT's building is becoming available this summer. 3,800 sqft of office and lab located in the ASU Research Park in Tempe.

- 3,808 sqft in 5,640 sqft suite,
- PADT owned building
- 10 ft ceiling in offices & halls
- 15 ft ceiling in bay
- 10 x 12 garage door at grade level
- ESD flooring in lab areas
- 765 sqft Assembly room/lab space
- Lab is upgradeable to clean room
- Cox fiber internet to building
- 480/277 V 3PH Power
- Fully Air Conditioned
- SRP Power
- Ample Parking

[Learn More](#)

## What You Missed...



### PADT Webinars

[Fluent Updates in Ansys 2024 R1](#)

[Structures Updates in Ansys 2024 R1 \(1\) - Mechanical, Meshing & Composites](#)

[Improving Health Care with Additive](#)



### All Things Ansys Podcasts

[125: 2023 Wrapup](#)

[124: Ansys Licensing](#)

[123: Simulation in the Medical Space](#)



### Did You Know?

PADT also distributes and supports the Flownex Simulation Environment across North America? Flownex provides fluid-thermal 1D simulation without limitations. Our customers use it in the nuclear, energy, propulsion, automotive, and aerospace industries to study how flow and heat transfer systems behave in the real world.

## The Latest Definition from PADT's 3D Printing Glossary



### Glass Transition Temperature

The temperature above which a given material transitions from hard material to a rubbery material. In polymers, materials below the glass transition temperature are rigid and brittle. Above the temperature they are easily deformed and may freely flow.

In additive manufacturing, the glass transition temperature is important because above that temperature, material can be transported and deposited. Then when it cools below that temperature, it hardens and bonds with the previous layer. Most polymer material extrusion systems work on this principal.

Categories: Material

## Current Job Openings

- Receptionist & Administrative Assistant
- Flownex Account Manager, Software Sales (East)
- Senior Account Manager, Software Sales, Texas
- Business Operations Administrator, Engineering Services
- Application & Support Engineer, Structural
- Business Development Representative, Software Sales
- Model Based Systems Engineer

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