



## VSIm 7.2 is Released

**VSIm** Tech-X Corporation is pleased to announce the release of VSIm 7.2. VSIm is an electromagnetic time-domain three-dimensional solver with particle and plasma simulation capabilities. The latest release upgrades our leading-edge VSIm 7.0 software to include 8 more custom analyzers, improved GPU support for electromagnetic field solves, and multiple small improvements.

VSIm 7.0 customers may upgrade for free at our website; new customers may [request a free evaluation](#).

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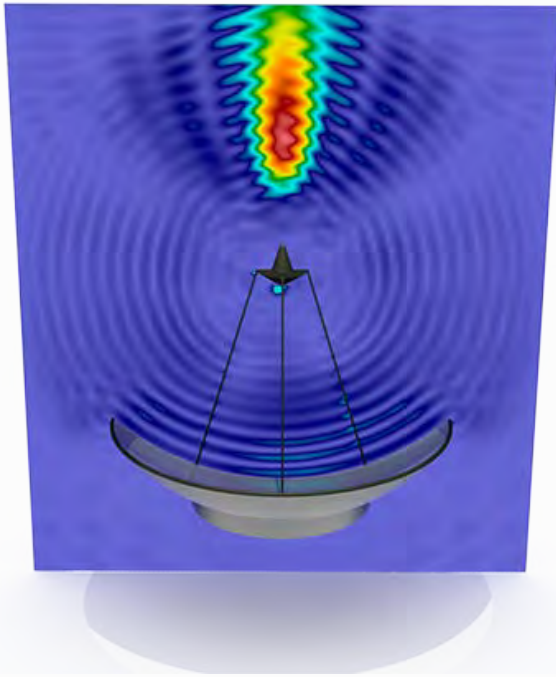
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## Upcoming Events

**May 17-22, 2015: Meet Us at the International Microwave Symposium**





Above: E-Field magnitude of an outgoing beam from a parabolic reflector antenna.

## European VSim User Meeting Held in Daresbury, United Kingdom

**VSim** With representatives from industry, government labs and academia, it was a successful VSim User Group Meeting at Daresbury. Dr. Jonathan Smith gave lectures on topics ranging from basic numerical methods to new physics discoveries made with VSim. Tech-X Application Engineer James McGugan demonstrated usage of the highly flexible VSim computational software on diverse problems, from radar cross sections to plasma discharges.

Users shared their experiences and knowledge through talks and exchanges. User talks included "VSim simulations of hybrid plasma accelerators" (G. Wittig, Hamburg U), "Plasma lensing and CLARA plans" (K. Hanahoe, Oxford U), "Start to end simulations of plasma accelerator driven FELs" (P. Traczykowski, Strathclyde), "Numerical Simulation of High Efficiency Multiple Beam Klystrons" (D. Constable, Lancaster U), and "Numerical Simulation of Langmuir Probes in Magnetised Plasmas" (S. Murphy-Sugrue, Liverpool/Culham).

Tech-X scientists will attend [IMS](#) from April 27-29, 2015 in Phoenix, AZ. Visit us at Booth 207.

## May 31-June 4, 2015: Tech-X to Attend 2015 Pulsed Power Conference



Tech-X scientists will attend [PPC](#) in Austin, TX. [Drop us a line](#) if you would like to meet us there.

## April 27-29, 2015: Tech-X Will Attend the 21st Topical Conference on Radiofrequency Power in Plasmas

Tech-X scientists will attend the [21st Topical Conference on Radiofrequency Power in Plasmas](#) hosted by the University of California-Los Angeles from April 27-29, 2015. Dr. Thomas G. Jenkins will present an invited talk, "High-Performance FDTD Simulations of C-Mod and ITER RF antennas," at the conference.

## Tech-X Exhibits at European Conference on Antennas and Propagation

**VSim** Dr. Jonathan Smith and Tech-X Application Engineer James McGugan attended [EuCAP'2015](#) in Lisbon, Portugal, where they demonstrated VSim's high performance antenna modeling capabilities. VSim for Electromagnetics solves antenna modeling problems in serial and parallel. VSim's parallel performance is proven to scale linearly for massively parallel computing on supercomputers of up to 100K cores. VSim provides low level control over computational algorithms used in its geometry and material models.

For our upcoming conferences that we will be attending, please see the [Upcoming Events](#) to the right. If you wish to meet our attendees, please contact [Tech-X Sales](#).



Left to right: Dr. Jonny Smith and Tech-X AE James McGugan at EuCAP'2015.

## Upcoming Fall 2015 VSim User Group Meeting

**VSim** The next VSim User Group Meeting will be in the US, in Boulder, CO in the fall of 2015. Dates will be announced soon. The program will

## April 21-24, 2015: Tech-X Will Attend the Hardened Electronics and Radiation Technology (HEART) Technical Interchange Meeting (TIM)

Tech-X scientists will attend [HEART TIM](#) in Chantilly, VA from April 21-24, 2015. Dr. Svetlana Shasharina will present a poster, "Radiation Modeling for SUDA (SURface Dust Analyser) for Europa Clipper" at the meeting.

## Recent Publications

Veitzer, Seth A., Kristian RC Beckwith, Madhusudhan Kundrapu, and Peter H. Stoltz. ["Numerical modeling of the SNS H- ion source."](#) In *FOURTH INTERNATIONAL SYMPOSIUM ON NEGATIVE IONS, BEAMS AND SOURCES (NIBS 2014)*, vol. 1655, no. 1, p. 030004. AIP Publishing, 2015. [doi:10.1063/1.4916431](https://doi.org/10.1063/1.4916431)

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consist of sessions on:

- Elementary computational methods
- Recent discoveries using VSim by both users and Tech-X staff
- Basic VSim workflows
- Advanced VSim usage, including application to:
  - complex problems
  - developing analysis plugins
  - visualization

If you have an interest in either presenting at this meeting or attending, please [send a message to Tech-X Support](#).

## Custom Training Sessions

**VSim** In March and April, Tech-X held several specialized training sessions for VSim users in the areas of Microwave Devices and Electromagnetics. Basic training topics included how to set up a multifield block, geometry creation, and how to add particles to a simulation. More advanced topics included debugging a prototype microwave device and advanced visualization methods.

[Contact Tech-X Sales](#) to schedule customized training for your team today.