

Getting the Visual Editor

The Visual Editor is distributed by the Radiation Safety Information Computational Center (RSICC). It is shipped with the MCNP/MCNPX code package, number **CCC-740**.

"Every MCNP user should acquire the Visual Editor and participate in the Visual Editor Consultants class. The gains in analytical power and productivity will far outweigh the expenditure of time and money."

Carl Koizumi, S.M. Stoller Co.,
September 2004, Richland, WA class



First of all, Randy is definitely the type of person you will want to learn from for a class like this. His personality and teaching method ensure that you are going to fully understand what you are doing and catch on quickly.

Second, the power of the visual editor is unbelievable.

With what I have learned, I can safely say that I no longer consider code creation to be of a comparable time length to problem setup

and output analysis.

Andrew Statch—Bechtel National Inc, July 2008, Seattle, WA.

Visual Editor Consultants
www.mcnpvised.com

2012 classes:

Introductory:

- ♦ Jan 16-20, 2012, Las Vegas, NV
- ♦ Feb. 20-24, 2012, Paris, France
- ♦ April 16-20, 2012, Las Vegas, NV
- ♦ May 14-18, 2012, Honolulu, HI
- ♦ July 16-20, 2012, Livermore, CA
- ♦ July 23-29, 2012, Anaheim, CA
- ♦ Sept. 10-14, 2012, Myrtle Beach, CA
- ♦ Nov 5-9, 2012, Las Vegas, NV

Intermediate:

- ♦ Jan 23-27, 2012, Las Vegas NV
- ♦ April 23-27, 2012, Las Vegas, NV
- ♦ July 29—Aug 3, 2012, Anaheim, CA
- ♦ Aug 6-10, 2012, Livermore, CA
- ♦ Sep 17-21, 2012, Myrtle Beach, SC
- ♦ Nov 12-16, 2012, Las Vegas, NV

Registration information: mcnpvised.com/train.html

I had never used the Visual Editor or MCNP before the class but the curriculum is so thorough and so well laid out that I was able to keep up with users with many years of experience, who also expressed considerable satisfaction with the class.

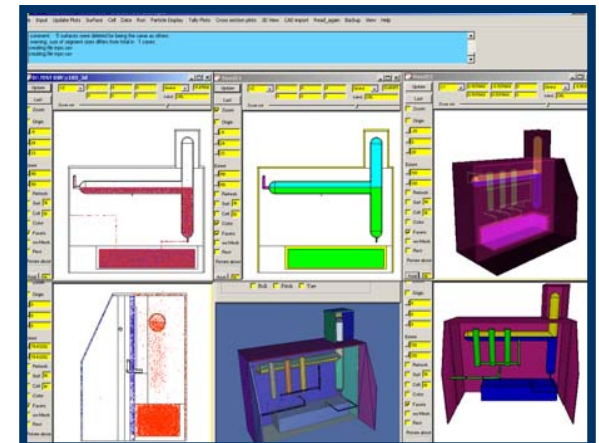
It was probably the best week I have ever spent learning anything associated with the nuclear industry.

- Kelly Ellis—Lucas Engineering and Management Systems, July 2008, Seattle WA class.



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Developers of the Graphical User Interface for MCNP & MCNPX

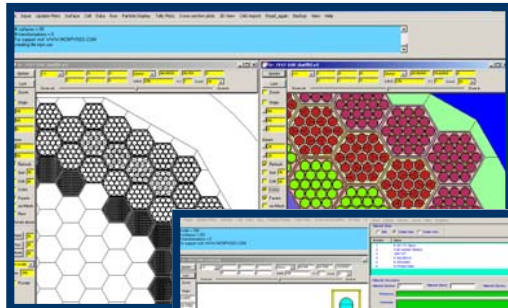


2012 Class Schedule

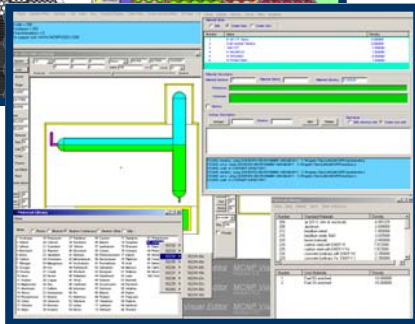
Visual Editor Classes are approved for 32 Continuing Education credits through the American Academy of Health Physics

Randy Schwarz, Owner
Email: randyschwarz@mcnpvised.com
Tel: (509)539-8621

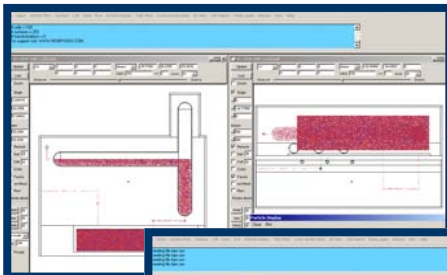
Features of the MCNP/MCNPX Visual Editor



2D Display

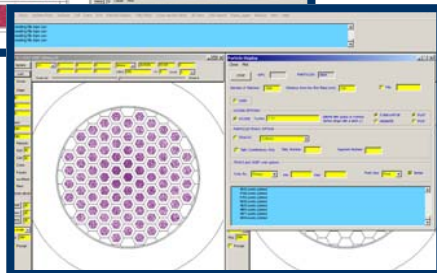


Materials



KCODE Source

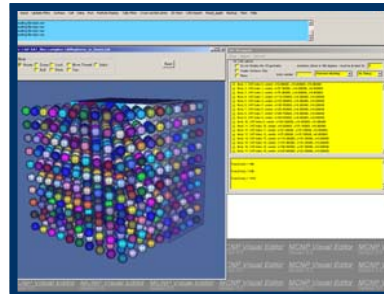
SDEF Source



One of the most time consuming aspects of creating a MCNP/MCNPX model is the time to create the geometry. The Visual Editor can significantly reduce this time by helping you visualize your geometry as you create it and then displaying the source and transporting particles once it is completed.

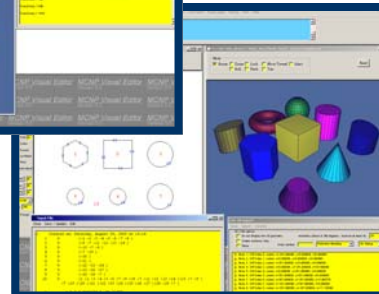
CAD to MCNP/MCNPX Conversion

www.mcnpvised.com/CAD/CAD.html

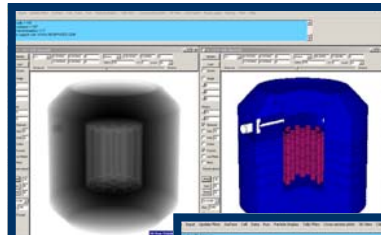


1000 spheres from CAD

CAD objects imported into MCNP

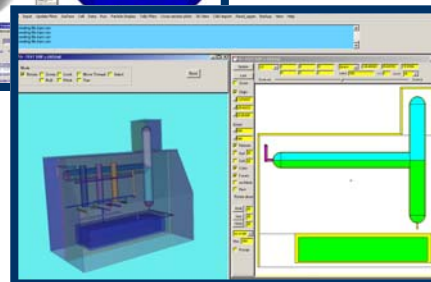


3D Display Options



3D Dynamic Display

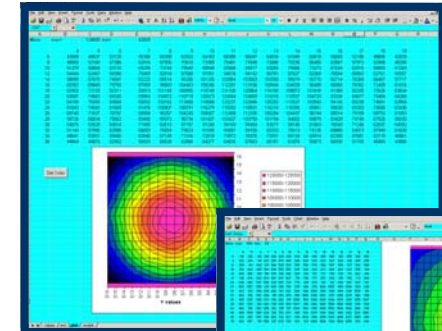
3D Ray Tracing



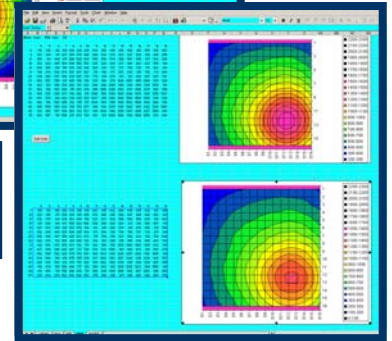
The Visual Editor has the ability to import and convert CAD geometries and can generate a 3D display of existing MCNP/MCNPX geometries. Ray traced images can be made as solids, radiographic, or transparent. The Dynamic view allows the user to change the transparency of cells and move the object in real-time.

MCNP/MCNPX Output Visualization

www.mcnpvised.com/output/output.html



Using Excel to Plot MCTAL Data



With the massive amount of data that can be generated by MCNP/MCNPX, it is essential that methods be developed to visualize this data. Visual Editor Consultants has developed a process for reading MCNP/MCNPX mctal data files and creating contour plots from the data. This technique can be used to also create animations.

Visual Editor Consultants

www.mcnpvised.com

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