

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-730 .

"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, September 2004 Visual Editor 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 , July 2008

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Upcoming classes

MCNP/MCNPX Visual Editor classes:

- Jan 5 - 9, 2009, Seattle, WA
- March 16 –20, 2009, Seattle, WA
- May 18 –22, 2009, Las Vegas, NV
- June 8 –12, 2009, San Francisco, CA
- July 20 –24, 2009, Albuquerque, NM
Advanced class for current MCNP/MCNPX users. Includes a day for CAD import and a day for data visualization in Excel.
- August 10 –14, 2009, Los Angeles, CA
- October 26-30, 2009, Reno, NV

Dates and locations may change. Check the web-site for latest information and registration:

<http://www.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.

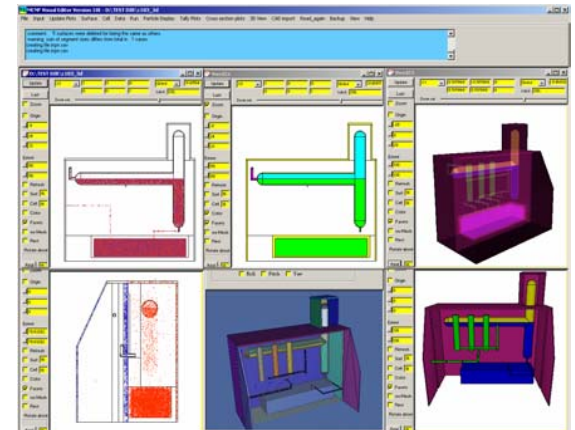
It was probably the best week I have ever spent learning anything associated with the nuclear industry.

- Kelly Ellis , July 2008 Visual Editor class.



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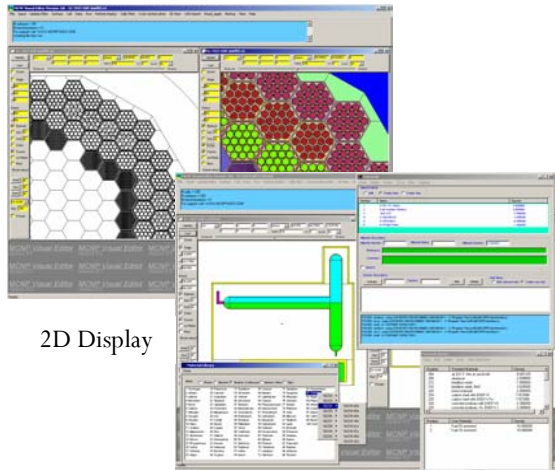
Developers of the Graphical User Interface for MCNP & MCNPX



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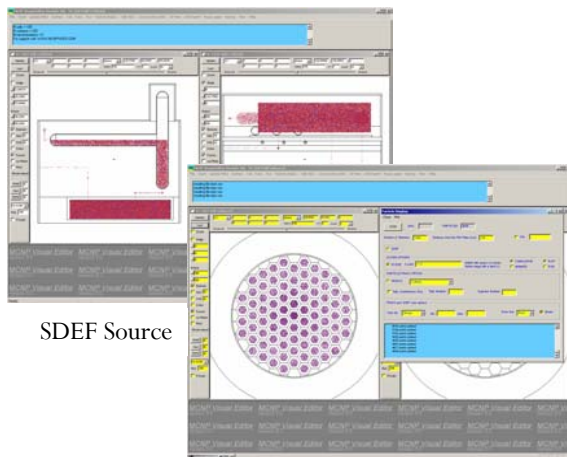
Randy Schwarz, Owner
Email: randyschwarz@mcnpvised.com
Tel: (509)539-8621

Features of the MCNP/ MCNPX Visual Editor



2D Display

Materials



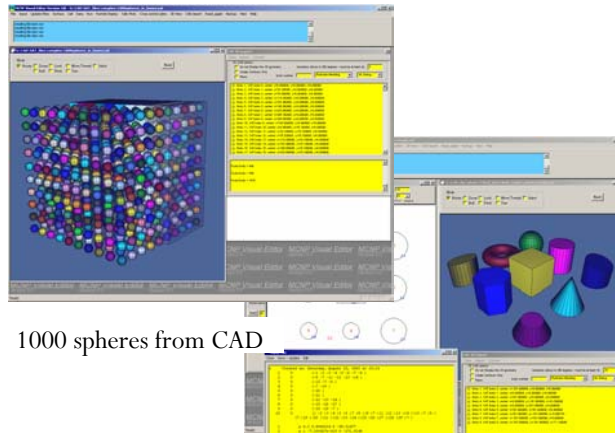
SDEF Source

KCODE 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

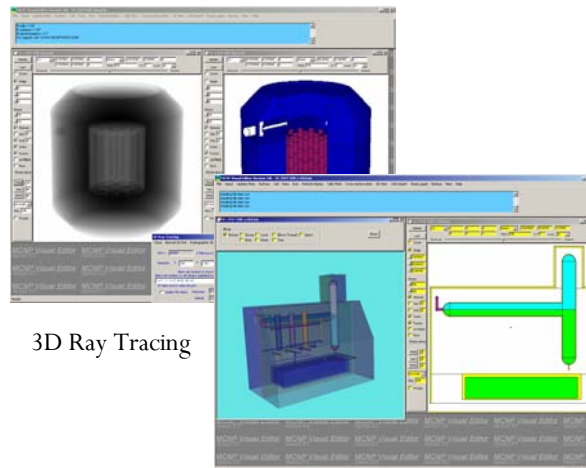
<http://www.mcnpvised.com/CAD/CAD.html>



1000 spheres from CAD

CAD objects imported into MCNP

3D Display Options



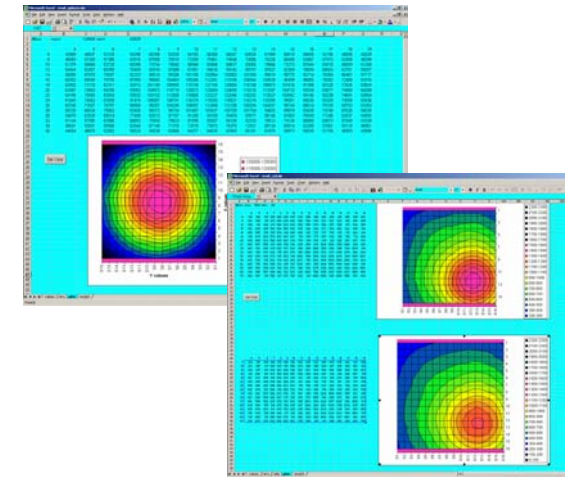
3D Ray Tracing

3D Dynamic Display

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

<http://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.

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