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Smarter. Faster. More Efficient.  
**NEW v2009!**

XP Software  
Q1 Newsletter  
March 2009

XP Software, Inc., announces the release of **xpswmm** and **xpstorm** 2009. This release marks another milestone in XP Software's ongoing development of simulation software that is fast, reliable, accurate and always supported.

Whether using **xpswmm** and **xpstorm**'s powerful engine and interface for sewer system design and analysis, its 2D modeling capabilities for advanced floodplain analysis, or its easy user interface for simple catchment and stormwater system analysis, engineers agree that XP Software products help them save money and model with confidence.

**xpswmm** and **xpstorm** 2009 are now available for download to those with current xpertcare contracts. The new release includes many changes including the following new features and enhancements to make your modeling projects easier:

- **CAD Connector:** Load the latest CAD files, convert points, lines and polygons to nodes, links, and polygon objects; manipulate CAD layer visualization within imported CAD images and more.
- **LAND XML:** Makes it easy to import and export terrain and network data. For improved workflow, use LAND XML to readily access project data across-platforms.
- **Pond & Basin Storage Optimization:** Set outfall at a pond or detention structure faster with automated tools.
- **SWMM5 EPA\*:** **xpswmm** and **xpstorm** now offer more integrated tools for projects requiring the use of EPA SWMM5. You can choose to work with the EPA engine within **xpswmm** and **xpstorm**, or import or export SWMM5 data files to and from **xpswmm** and **xpstorm**. Results can be easily compared by exporting to Excel or using graphing tools.
- **2D Vertically changing roughness and infiltration\*:** Now 2D simulates simple 2D hydrology, rain and infiltration on each grid cell. This brings your one dimensional modeling a step further for accuracy and real world results.
- **Inlet Capacity with 2D\*:** 2D overland flow now has an additional option for inlet capacity to use an orifice to weir equation from 1D nodes to 2D nodes.

\*May require the purchase of an add-on module

The [xpsoftware.com](http://xpsoftware.com) website has moved to a new location. Please update your bookmarks!

Looking for information about XP Software products but don't know where to look? Click on the following to see

[xpswmm demo video](#)

[xp2D demo video](#)

[DTM for 1D modeling in xpswmm video](#)

[Case Studies](#)

[Trial Version of xpswmm](#)

[Support](#)

[Training Information](#)

If you have **xpswmm** or **xpstorm** and a current **xpertcare** contract, you will receive this upgrade via email soon! If you do not have a current **xpertcare** contract, or would like more information about these programs, please contact your sales office at the numbers listed at the end of this newsletter.

## Model with Confidence using **xpswmm** and **xpstorm** 2009!



### Are you a Transportation Department or a consulting firm working on a D.O.T. project?

**xpswmm** and **xpstorm** are among the most reliable and widely supported software applications used for infrastructure projects related to storm water runoff and drainage analysis. For situations such as roadway flooding and complicated drainage, **xpswmm** and **xpstorm** are a smart addition to your design and analysis tools.

Scott Carlson with the Minnesota Department of Transportation says, "**xpswmm** is one of the best programs currently available for complicated storm sewer systems that are under pressure flow."

Bob Steele, a senior engineer with The LPA Group, has used **xpswmm** for several D.O.T. projects in the South Carolina area. He uses **xpswmm** to implement better stormwater management practices to enhance existing roadways and storm systems. When designing roads you can use **xpswmm** and **xpstorm** to figure out where the water is going to flow and store the excess water within a network or pipe system. "Many times instead of advocating the investment of expensive land to manage stormwater we can do it within the system," says Steele. "It's a hydrodynamic program that I think is easy, straightforward and intuitive."

**XP Software offers a discounted rate to any D.O.T. interested in using xpstorm.** If you're interested in learning more about how **xpstorm** can be used for your DOT needs, please contact us directly at the numbers listed below.



**Do you have Watershed Management Software (WMS)? WMS includes powerful tools to automate modeling processes such as automated basin delineation, geometric parameter calculations, GIS overlay computations (CN, rainfall depth, roughness coefficients, etc.), cross-section extraction from terrain data, and more!**

**If you do own WMS, you now have the potential to export your automatically delineated watershed directly into xpswmm or xpstorm.**

**Note to United States D.O.T.'s: You have WMS through the Federal Highway Administration. Call us today to find out how to get it.**

On June 29, 2005, the City of Saskatoon reported basement backups and lift station flooding during a significant rainfall. The City retained Water Resources Modeling, LLC to develop two XPSWMM models for the Forestry Farms and Avenue M basins. These models included about 5,000 manholes and over 450 kilometers of sewers.

The first task of the project was to build the models using the City's Geographic Information System (GIS). The City's database was directly imported into **xpswmm** and all of the data was reviewed for data inconsistencies. Less than 200 data inconsistencies were noted which shows how much effort the City has put into their sewer database. These areas were reviewed by City staff and the model was updated. Dry weather flows were added to the model.

After the June 29th storm, Saskatoon started a flow monitoring program and the available rainfall data and flow monitoring data were added to the model. The model was then calibrated to the wet weather flows. The rainfall data for the June 29th storm was then added to the models and the models were used to determine the causes of the sewer backups and lift station flooding.

Site surveys by City staff identified several blockages that were included in the model by using user defined pipes. In several areas, these blockages were determined to cause basement backups and lift station flooding while in others excessive inflow and infiltration appeared to be the cause.

Due to the complex hydraulics of the Saskatoon sanitary sewer system, a fully dynamic model -- with the ability to add user-defined variables -- like **xpswmm** was necessary to determine the cause of basement backups and lift station flooding.

Did you think **xpswmm** was only for stormwater modeling?

**xpswmm** has been used successfully to model storm sewers, sanitary sewers, combined systems, flood maps, interconnected pond routing, roadway drainage, best management practices and Low Impact Development.

## training opportunities



Our public workshop training opportunities offer a wealth of information for both novice and expert **xpswmm** and **xpstorm** users. First-time users will learn everything necessary to start on the right foot with real-time examples and real world knowledge. Experienced users will be introduced to new features and functions released in recent months, and will have the opportunity to refresh their skills. Product vouchers are provided, and continuing education credits are available in the U.S. and Canada. Be sure to join us at one or more of our upcoming training venues and you will become another satisfied client who can **Model With Confidence**.

Additional training services include onsite training and internet based training. Call our sales office for details on these or any other workshop.



Brisbane, QLD, Australia  
20 March 2009  
**Modelling with xprafts**

**YOU ARE ALSO WELCOME TO VISIT US AT A TRADE SHOW!**

It will be a full year of trade shows and exhibitions for XP Software! If you are attending one of the following trade shows, stop by our booth, meet our staff and be sure to get a demonstration of our latest software and associated modules.

**Urban Water Management  
March 23-26, 2009  
Overland Park, KS  
Booth 411**



Edmonton, AB, Canada  
 1, 2 & 3 April 2009  
**Introduction to Stormwater, Sanitary and Flood Modeling  
 with xpswmm/xpstorm**



Minneapolis, MN, USA  
 29, 30 April & 1 May, 2009  
**Stormwater Management and Flood Modeling with  
 xpswmm/xpstorm**



Ottawa, ON, Canada  
 3, 4 & 5 June 2009  
**Introduction to Stormwater, Sanitary and Flood Modeling  
 with xpswmm/xpstorm**



Perth, WA, Australia  
 9 June 2009  
**Modelling with xprafts**



Perth, WA, Australia  
 10 June 2009  
**Interfacing xp12d with xpswmm/xpstorm**



Perth, WA, Australia  
 16, 17 & 18 June 2009  
**Stormwater & Wastewater Design Analysis with  
 xpswmm/xpstorm**



Brisbane, QLD, Australia  
 16, 17 & 18 March 2009  
**Stormwater and Wastewater Design Analysis with  
 xpswmm/xpstorm**



Portland, OR, USA  
 29, 30 and 31 July 2009  
**Stormwater Management and Flood Modeling with  
 xpswmm/xpstorm**



Charlotte, NC, USA  
 28, 29, 30 October 2009  
**Introduction to Stormwater, Sanitary and Flood Modeling  
 with xpswmm/xpstorm**

April 19-22, 2009  
 Louisville, KY

ASFPM  
 June 7-12, 2009  
 Orlando, FL

StormCon  
 August 16-20, 2009  
 Anaheim, CA  
 Booth 609

IAHR Congress  
 August 10-14, 2009  
 Vancouver, BC

Floodplain Manager's  
 Association  
 September 7-11, 2009  
 San Jose, CA

(Find information as it is made available on our website)

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**CONTACTING XP SOFTWARE:**

**North American Office:**  
**XP Software, Inc.**  
5415 SW Westgate Drive, Suite 150  
Portland, OR 97221  
Phone: 1-888-554-5022  
Fax: 1-888-554-5122

**Australian Office :**  
**XP Software Pty Ltd**  
8-10 Purdue Street  
Belconnen ACT 2617  
Postal Address:  
PO Box 3064  
Belconnen ACT 2616  
Phone: (02) 6253 1844  
Fax: (02) 6253 1847

**Malaysia Office :**  
**Lestari Software Enterprise**  
No. 5-2, Jalan Temenggung 5/9  
Bandar Mahkota Cheras  
43200 Cheras  
Selangor  
Phone: (03) 90104368  
Fax: (03) 90104328