

Maryland Association of Floodplain and Stormwater
Managers (MAFSM) Year I



3D FLOOD SIMULATOR MODEL



Background



- Organized in 2004
- Official state chapter of ASFPM in 2006
- Approximately 140 members with an active core group of about 10 people
- Main chapter activities
 - Disseminating information through newsletters
 - Annual conference with field tour
 - Hosting CFM Refresher trainings and CFM exams
 - Writing letters to legislators

Background



- Applied for and was granted the 3D model as part of ASFPM and OPP's Flood Risk Education in Schools campaign in 2011



Actions



- Advertised and held a 3D Flood Simulator Model Train-the –Trainer at MAFSM's 7th Annual Conference in October 2011



Actions



- Conference calls with cadre of trainers



Actions



- We obtained and updated templates from ASFPM that OPP and other chapters put together

How do I get this into my school?

Contact us:



Maryland Association of Floodplain and Stormwater Managers
www.mafsm.org

Necolle Maccherone
1304 Concourse Drive, Ste. 200
Linthicum, MD 21090
Phone: 410.689.3460
nmaccherone@mbakercorp.com

STORMWATER FLOODPLAIN SIMULATOR
Floodplain Education for Schools



Why we are offering this free service

Your state chapter of the Association of State Floodplain Managers has trained local volunteers to offer floodplain modeling demonstrations in local schools. This hands-on class is offered at no cost to the school or the students.

Our primary goal is to help students who have been through a flood understand it from a scientific standpoint in order to process the trauma and regain a sense of control over their world.

We also want to raise awareness of the benefits of properly managed water resources and promote the profession of floodplain management to students. These hands on demonstrations and lessons from real floodplain professionals can easily be accommodated in most classroom time frames and settings.

OUTREACH PROCESS PARTNERS

The floodplain education in our local schools campaign is a pilot project done in cooperation with the Outreach Process Partners and your local chapter of the Association of State Floodplain Managers.

Actions



- Used chapter website to promoting the model and as a resource center for trainers

<http://mafsm.org/committees.php?id=20>

- Promoted our demo activities through our LinkedIn site and YouTube

Actions



- As of October 1, 2012 conducted nine demonstrations exposing approximately 275 students and 20 professionals to the model and the impacts of development within the watershed

Actions



- Frost Elementary School (Kindergarten)



Actions



- Cooperating Technical Partners Training at FEMA's Emergency Management Institute (Adult professionals)

Actions



- Carroll County Enviro-thon (High School)



Actions



- Western Maryland Science and Engineering Festival (All ages)



Actions



- Local Girl Scout Troop (2nd and 4th graders)
- Deep Run Elementary (Kindergarten)
- Local Boy Scout Troop (12 – 14 year olds)



Actions



Presented at the 2012 Montgomery County Fair at an outreach event called “Rain Day” put on by Dewberry. Added a pump to simulate Base Flow and Flood Flow.



Can explain the effect of increased imperviousness, faster for high volume crowds. High flow water sweeps houses away.

Pump two speed switch

Actions



- Obtained contact info for the Science, Technology, Engineering, and Math (STEM) contacts for each county in Maryland
- Completed first annual report and submitted to ASFPM

Outcomes



- Conducted nine demonstrations exposing approximately 275 students and 20 professionals to the model and the impacts of development within the watershed.
- Received an award at the ASFPM National Conference from OPP for “Outstanding Education and Outreach Conducted with the Floodplain 3D Model”.

Outcomes



- Instrumental in other organizations interest and purchase in the model (Virginia State Chapter and the Washington DC Department of the Environment)

Outcomes



- Received letter of thanks from Frostburg Elementary and the Western Maryland Science and Engineering Festival

Future Plans

- In Year 1
- In Year 2



Questions

