National Perspective on the U.S. Rainwater Harvesting Industry

David Crawford, President
• Large-scale case studies
• Issues and obstacles in the industry
• Successful collaborations
• Moving forward
Manassas Park Elementary School

61,500 sf of additional roof area (12,000 pre-k; 49,500 upper elementary)
Estimated project budget $33 million
Manassas Park Elementary School - Education component
Home Depot
James Madison University
Mammoth Cave

Mammoth Cave National Park Visitor Center
Charlottesville Area Transit
Western Virginia Regional Jail
Payback analysis

- Total system cost = $258,000
- 3.9 million gallons of water saved
- Current water rate $3 per 1,000 gallons
- Annual savings from water = $11,675
- Total payback time = 22 years

But does that really include everything?
Payback with offsetting costs and increase in water rates

Payback with no offsetting costs and no increase in water rates
A two-tiered approach

• Two “clean” tanks are used for indoor use – toilets and urinals
• The other two tanks are used for irrigation
St. Francis Hospital
Avon Facility
Overcoming Obstacles

- Communication
- Work phasing
- Consistent, scalable design
- Design based on potential supply and possible demand
- Cross connections
The American Rainwater Catchment Systems Association currently is leading the way in field training for residential systems. ARCSA currently is revamping its training to include commercial systems and offering this to the public with our MOU and current relationship with ASPE. ARCSA needs your help in funding and continued support to bring Rainwater Harvesting to the public.