

Indiana Water Environment Association

74rd Annual IWEA Conference

**CTAM: Achieving Water Utility
Infrastructure Management Excellence**

Tom Iseley, Ph.D., P.E.

Professor & Director

IUPUI-PURDUE SCHOOL OF ENGINEERING & TECHNOLOGY

Construction Engineering Management Technology

BAMI – I

Buried Asset Management Institute – International

- Inspired by Atlanta's Mayor, Shirley Franklin.
- Started in January 2003 as a part of DWM (Department of Watershed Management) under the leadership of Commissioner Jack Ravan
- June 2004, it evolved into a non-profit organization

BAMI – I

- December 2004, first Official BOD
- 2005, developed and submitted proposal for EPA cooperative agreement
- 2006, EPA accepted BAMI-I's proposal
- 2007, Research team initiated the project
- December 18, 2008, research project completed
- January 2010, Launched CTAM (Certificate of Training in Asset Management)

BAMI – I & EPA

BAMI-I's research

“Establishing a Pathway for Achieving Water Utility Infrastructure Management Excellence”

was sponsored by EPA Grant - CP 83 282901-1

BAMI – I TEAM CONSULTANTS



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TRENCHLESS TECHNOLOGY CENTER LOUISIANA TECH UNIVERSITY



“Municipal / Utility Needs” Survey

Dr. Ray Sterling

BAMI – I TEAM CONSULTANTS

THE UNIVERSITY OF TEXAS

ARLINGTON



Education Program



*“Guide to Water & Wastewater Asset
Management”*

Manual and Examination

Dr. Mohammad Najafi

PHASE I - FUNDAMENTALS

“Guide to Water & Wastewater Asset Management”

The University of Texas Arlington
Published by Benjamin Media Inc.



**Manual
Visual Presentation & Exam
of each chapter**

BAMI – I TEAM CONSULTANTS

VIRGINIA TECH



Virtual CEMAM

Center of Excellence for Municipal Asset Management

Dr. Sunil Sinha

Dr. Randel Dymond

Mr. Rahul Vemulapally

Mr. Thomas Dickerson

PHASE III – APPLICATION TO THE INDUSTRY

Introduction to common asset management resources and tools available in the industry.

This includes companies and programs, such as:

1. Liquid Assets <http://www.liquidassets.psu.edu>

Liquid Assets is a public media and outreach initiative that seeks to inform the nation about the critical role that our water infrastructure plays in protecting public health and promoting economic prosperity.

ESTABLISHING A PATHWAY FOR ACHIEVING WATER UTILITY INFRASTRUCTURE MANAGEMENT EXCELLENCE

EPA GRANT -CP 83 282901-1



BAMI-I ASSET MANAGEMENT CERTIFICATION PROGRAM

- 1** PHASE I
Fundamentals.
Book and
examination.
- 2** PHASE II
Practical. Use of
virtual CEMAM.
- 3** PHASE III
Application
to Industry.



CTAM

Certification of Training
in Asset Management

Exclusive asset management
online training course for water
& wastewater professionals.

What is CTAM?

CTAM or Certification of Training in Asset Management is an online course which provides the participant with knowledge and resources in asset management that qualifies him/her to initiate, continue and/or improve an asset management program in the water and wastewater industry for their community. Designed with your schedule in mind; advance at your own pace.

For full course outline, visit: bami-i.com/index.html

Enter discount code: CTAM10 if registering 5 or more

Call: 330.467.7588

E-mail: vlosh@benjaminmedia.com

Developed by

BAMI-I

Broad Asset Management Institute - International

Hosted by

IUPUI

INDIANA UNIVERSITY
PURDUE UNIVERSITY
INDIANAPOLIS

In partnership with



**Register 5 or more
from your organization
and receive \$10 off
per registrant!**

Earn 1 CEU/
10 PDHs upon
completion

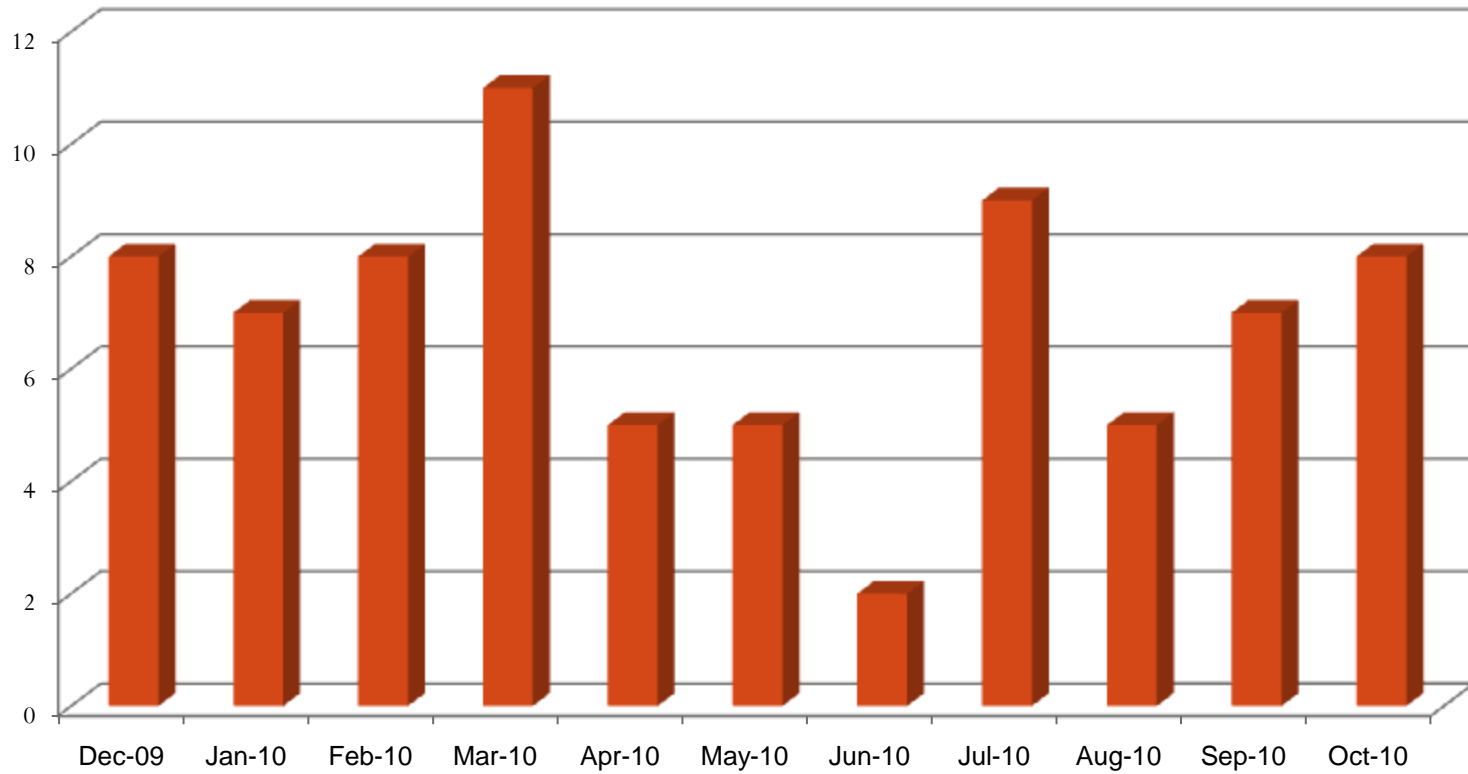
In collaboration with:

Louisiana Tech University, Virginia Tech, University of Texas at Arlington and Indiana University-Purdue University Indianapolis
The project was funded in part by the USEPA as part of a cooperative agreement between EPA and BAMI-I.

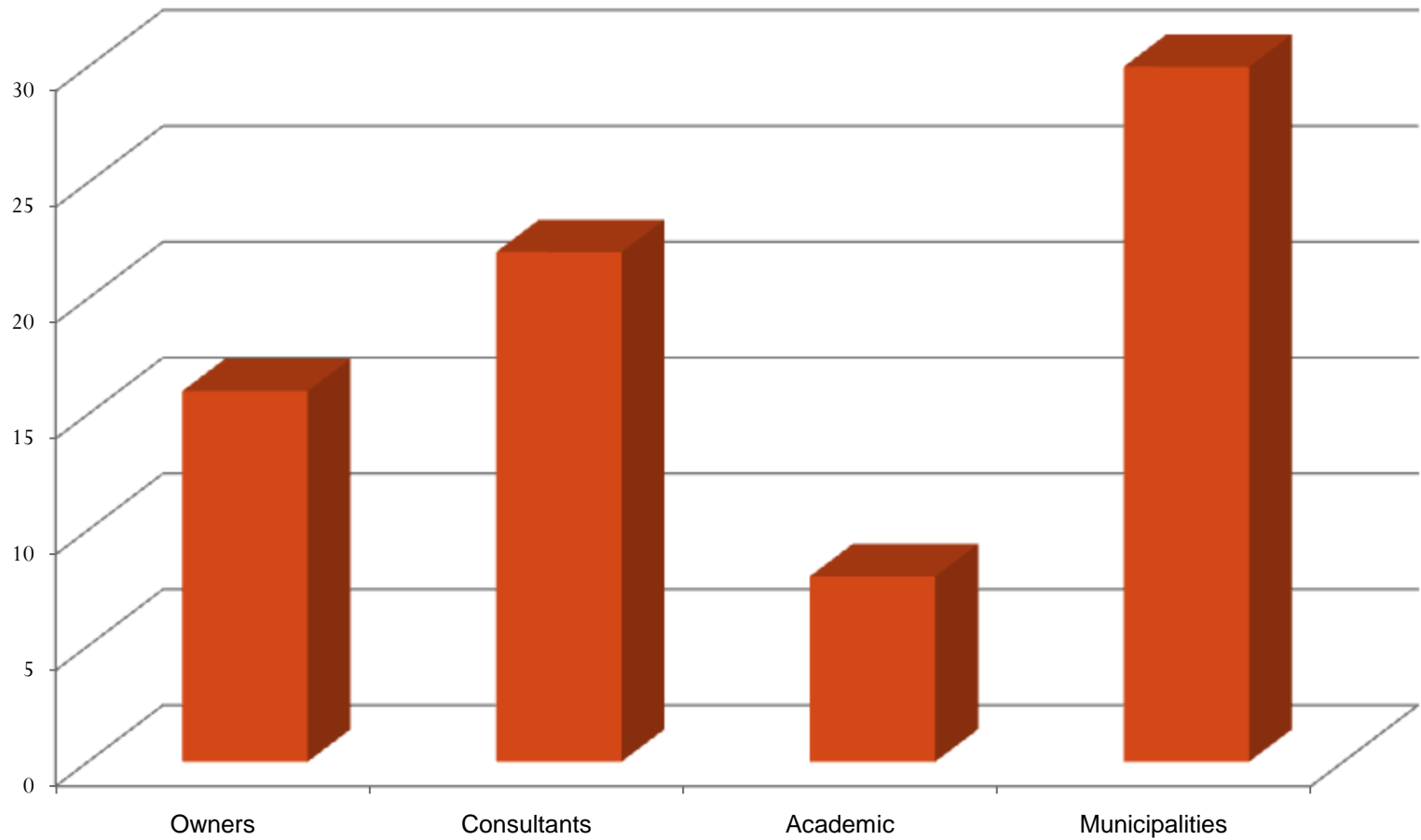
Certification of Training in Asset Management (CTAM)

October 2010 Report

Number of Enrolled Students

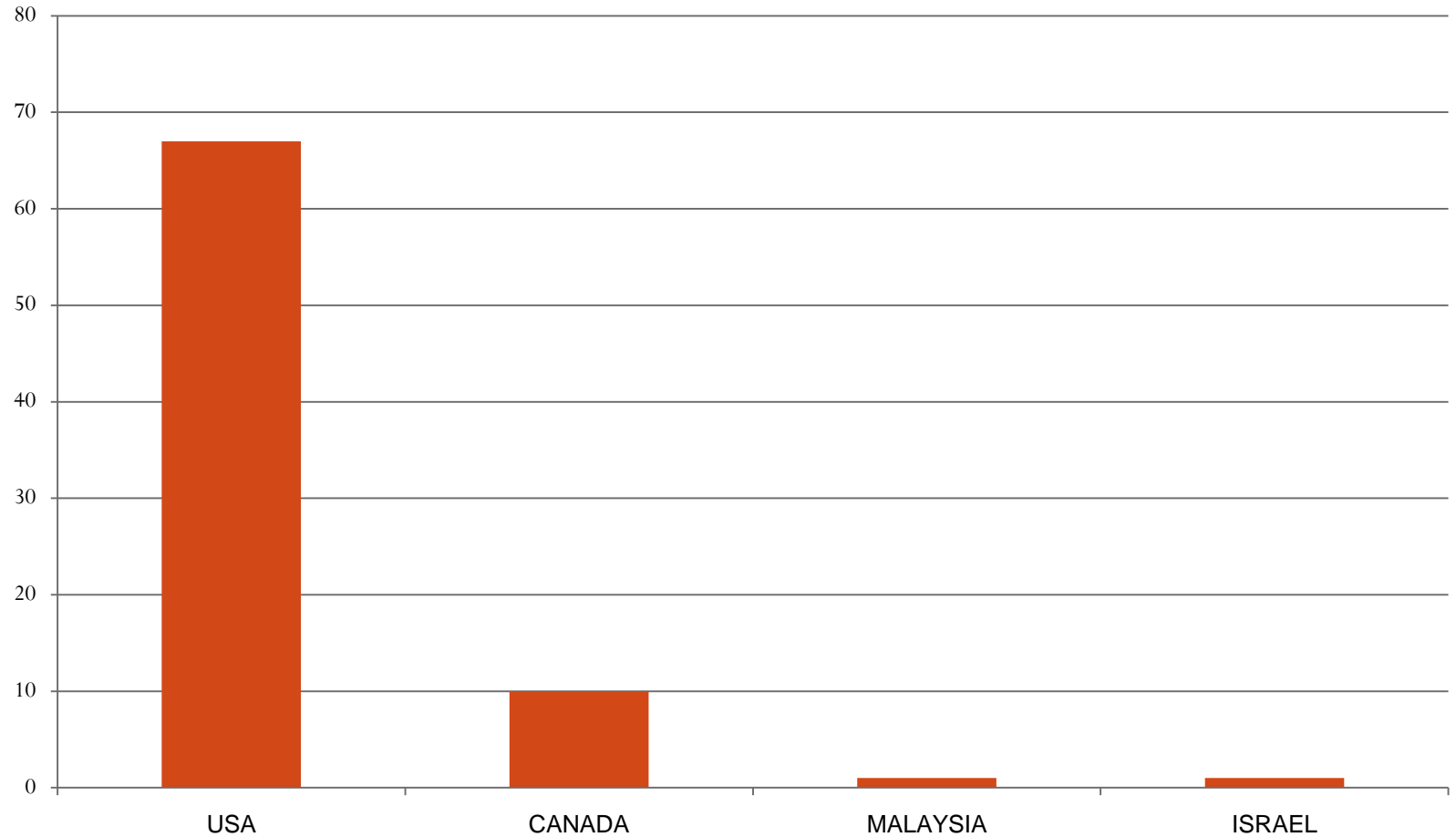


Students Category

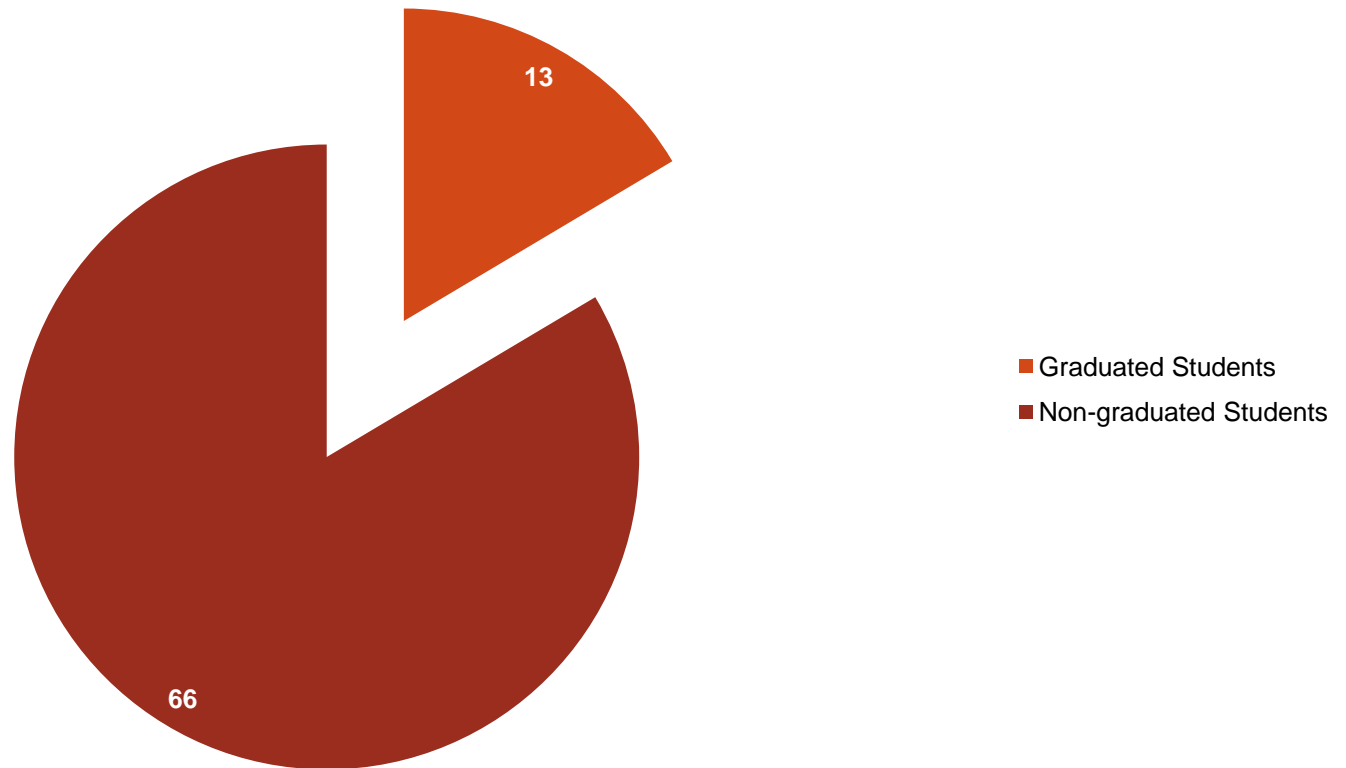


Multi Country Coverage

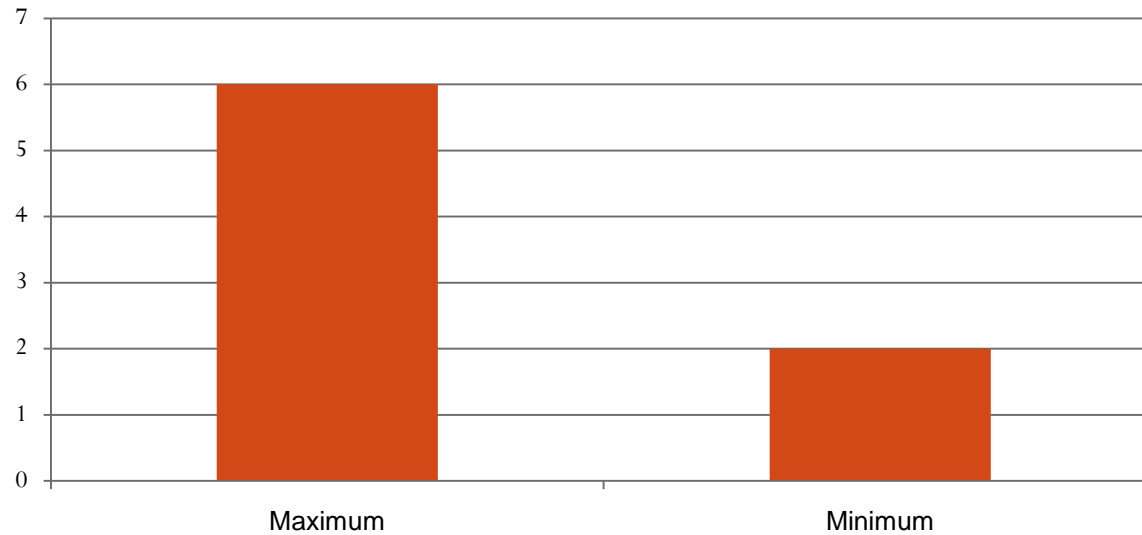
(Number of Students)



Graduated Students



Course Duration (months)



Asset Management Books

A Result of Collaboration:

- University of Texas at Arlington (UTA)
- Indiana University Purdue University Indianapolis (IUPUI)
 - Benjamin Media

Book #1

What is the current state of my assets?

- Chapter 1 Introduction
- Chapter 2 Approach towards Existing Assets
- Chapter 3 Field Asset Management Technologies
- Chapter 4 Data Management
- Chapter 5 Conclusions
- Chapter 6 References

Book #2

What is Required Level of Service?

- Government Regulations
- Customer Expectations
- Performance Measurements

Book #3

Which Assets are Critical to Sustain Performance?

- Risk Assessment
- Prioritization Methods
- Evaluation Technologies
- Asset Life Estimation Methods
- Depreciation Models

Book #4

What are the best O&M and CIP Strategies?

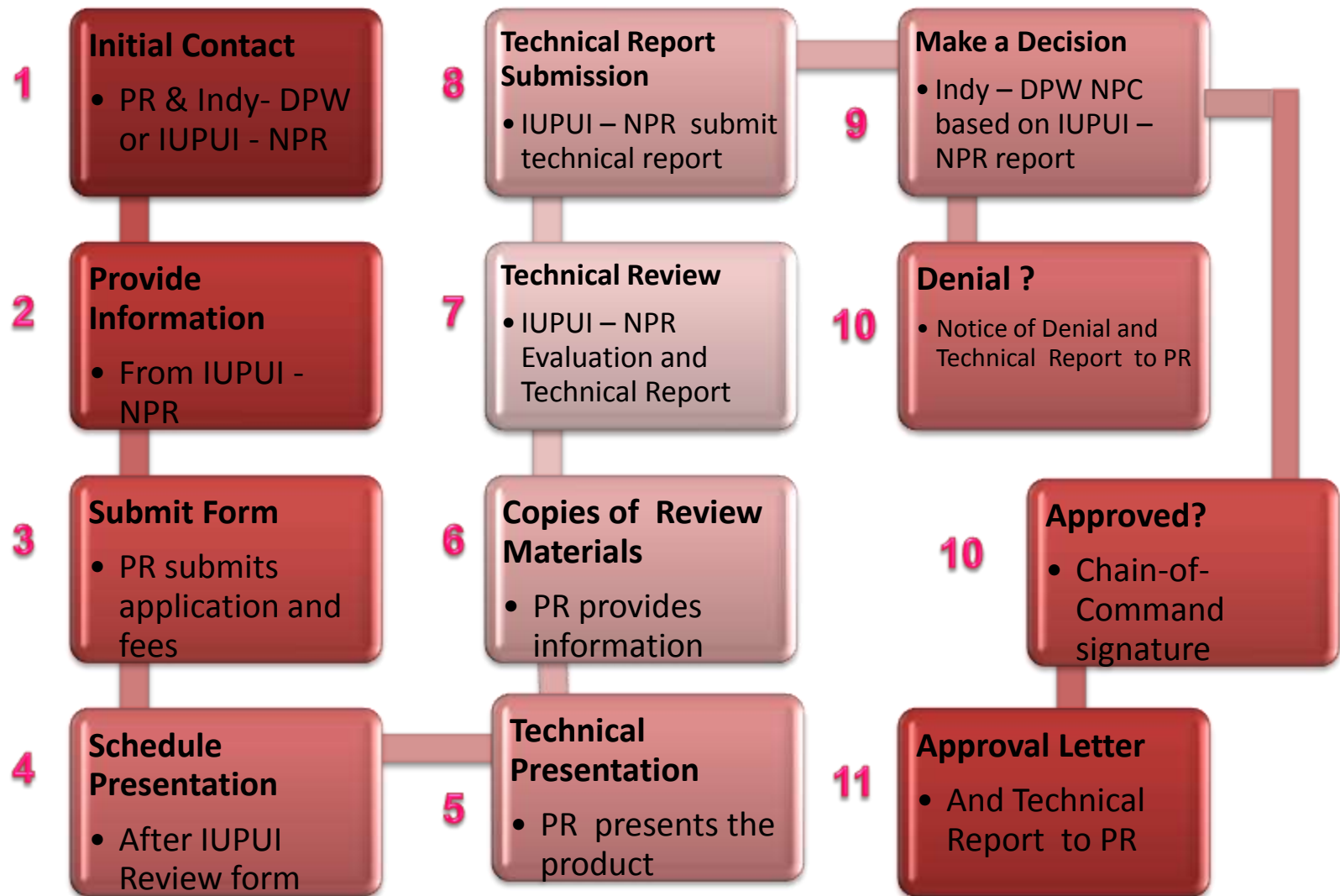
- CIP Planning Methods
- O&M Estimation
- Government Regulations: CMOM and GASB 34
- Renewal Technologies
- Repair Technologies

Book #5

What is best Funding Strategy?

- Economic Analysis
- Planning Concepts: Screening Projects
- Planning for Uncertainty and Risk
- Financial Analysis: Time Value of Money
- Concepts and Applications of Economic Analyses
- Environmental and Social Impact Assessment
- Public Environment
- Legal and Institutional Aspects
- Funding Methods:

New Product Evaluation Process



Typical Products for Review

- Advanced Pipe Service
- Sprayroq
- Storm Tech
- North West Pipe
- Contech Construction Products, Inc
- Ameron
- U.S. Composite Pipe South, LLC
- Reline America
- Conshield
- CIPP UV Cure
- Haviland Drainage
- Hydroworks, LLC
- KriStar Enterprises, Inc
- Sherwin-Williams

Example of Cover Report



NEW PRODUCT REVIEW (NPR) REPORT

for
**Storm Water Quality Unit (SWQU) by
Haviland Drainage Products Co.**



Prepared for:
**The Department of Public Works (DPW)
City of Indianapolis**

Within the framework of the
Indianapolis DPW + IUPUI NPR Process

Prepared by:
IUPUI - New Products Review (NPR) Team
Construction Engineering Management Technology Program
IUPUI-Purdue School of Engineering & Technology
799 West Michigan Street (ET 209P)
Indianapolis, IN 46202-5160
October 2009

Press Release

Engineering Better Lives
Technology That Drives the Future

**Underground
construction**

IUPUI and the Indianapolis Department of Public Works
Collaborate for Mutual Benefit

Introducing the Indy-DPW / IUPUI New Product Review Process

INDIANAPOLIS, IN (July 7, 2009) – IUPUI has signed an agreement with the Department of Public Works (DPW) for the city of Indianapolis to provide technical evaluation of new products and services via the New Product Review (NPR) Process at the university's Purdue School of Engineering and Technology. The Indianapolis DPW/IUPUI NPR Process will be implemented under the direction of Dr. Tom Iseley, Professor and Director of the Construction Engineering Management Technology (CEMT) program at IUPUI.



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Indy-DPW/IUPUI New Product Review Process Introduced

SEPTEMBER 2009 VOL. 64 NO. 9

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Building a Collaborative Environment

City of Indianapolis Turns to IUPUI for Technical Assistance

— Aug 01, 2009

Indiana University-Purdue University at Indianapolis (IUPUI) has signed an agreement with the Department of Public Works (DPW) for the City of Indianapolis to provide technical evaluation of new products and services via the New Product Review (NPR) Process at the university's Purdue School of Engineering and Technology. The Indianapolis DPW/IUPUI NPR Process will be implemented under the direction of Dr. Tom Iseley, Professor and Director of the Construction Engineering Management Technology (CEMT) program at IUPUI.



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IUPUI, Indianapolis Public Works to Collaborate on Product/Service Reviews

Under a new agreement with the Indianapolis Department of Public Works, IUPUI will evaluate new products and services for the city agency. The collaboration will result in lower costs and shorter review times for the city, and provide valuable professional experience for IUPUI students.

IUPUI will provide technical evaluation of new products and services for DPW via the New Product Review (NPR) Process at the university's Purdue School of Engineering and Technology. Tom Iseley, professor and director of the Construction Engineering Management Technology (CEMT) program at IUPUI, will direct the implementation of the Indy-DPW/IUPUI NPR Process.

Contact Information

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Professor & Director

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Questions

