



**Crystal Lake Conservancy Hosts Open Annual Forum
Druker Auditorium, Newton Main Library
Wednesday, October 6, 2010
7-9pm**

The Crystal Lake Conservancy is engaged in a yearlong environmental study of Crystal Lake. The public is invited to learn more about the health of Crystal Lake, the impact of activities within its watershed and the key issue of storm-water management.

This event is Co-sponsored with Newton Conservators.

Keynote Speakers



Larry Beals, Beals Associates

**Topic: The Principles of Limnology and
the Practice of Watershed Management
and Its Application to Crystal Lake**

Mr. Beals is the key consultant on the Crystal Lake Conservancy's Environmental Study. Crystal Lake in Newton, MA is a relatively small pond with a discrete watershed that gradually has been experiencing declining water quality for many years. For the first time, a program was set up with the Crystal Lake Conservancy to

systematically monitor the water quality throughout the spring, summer, and fall in an effort to gather empirical data and to define and document the existing water quality. The monitoring program began last fall and will continue into 2011. To understand the data in context, Mr. Beals will provide an overview of the Crystal Lake limnology and how the lake functions between "ice out" in the spring and when it freezes over again. With that understanding of the lake's dynamic system, he will examine the

data that was collected and draw conclusions regarding the current water quality of the lake. He also will discuss the watershed surrounding the Lake and its impact on water quality. This initial lake study and watershed evaluation is the first step in a long-term effort to protect and improve the water quality. He will conclude with a look at what can be done in the future to achieve this goal.

AND

Frederick Civian, Storm Water Coordinator, MassDEP

Topic: The Fuss About Storm Water: What Is The Problem With Storm Water and What Can Be Done About It?

Mr. Civian will describe how storm water has become a polluting problem and what current and future actions federal, state and local agencies are taking and considering. Topics will include “point sources” and “nonpoint sources” of pollution; the role of impervious surfaces; total maximum daily loads; as well as practical regional, local and household solutions. The presentation will provide the environmental and policy contexts in which improvements to Crystal Lake may be considered

Speaker Biographies

Lawrence Beals

Larry Beals is president of Beals Associates, Inc., an environmental consulting firm with offices in Massachusetts and New Hampshire providing professional service in land planning, civil engineering, landscape architecture, and land surveying.

Mr. Beals has over thirty years of professional experience with a variety of projects throughout New England involved with the development and conservation of land and water resources. During that time, he has been involved in all technical aspects of projects including master planning, land evaluations, subsurface explorations, wetland mapping, watershed surveys, lake studies, hydro-geological assessments and environmental impact assessments. He has been actively involved in the design, permitting and implementation of many projects designed to protect and improve the environment.

He has a B.S. in Biology and an M.S. in Soil Science. In addition to his consulting practice, Mr. Beals previously has worked with a regional watershed protection agency investigating the causes of declining water quality in a large watershed and implementing a variety of programs designed to provide long term protection of the lakes and improved water quality. Mr. Beals has taught land planning at the Harvard Graduate School of Design, appeared as an expert witness in numerous courts, and has presented more than one thousand projects to local, state, and federal regulators. He recently provided pro bono professional services for a non-profit organization as necessary to design, permit, and construct an innovative in-lake method to prevent chronic sedimentation that was occurring from storm water discharges.

Frederick Civian

Fred Civian is responsible for reducing pollution carried by storm water in Massachusetts. He has served the citizens of Massachusetts by developing and implementing a number of environmental programs, including rules for Small Quantity Generators, the vehicle emission inspection program, the transportation-related requirements of the Big Dig, and the Board of Registration of Licensed Site Professionals that established rules for expanded private oversight of hazardous waste site cleanups.

Mr. Civian has worked as a land-use planner in inland and coastal California, applying state and local land use and environmental standards to proposed residential and commercial developments. He also played a key role writing legislation to establish the Pajaro Valley Water Management Agency, a regional, popularly elected agency that manages water supplies in the northeastern Monterey Bay area. He currently lives in Dedham where he is actively involved in furthering Dedham's protection of its waterways, promoting use of open space and implementing improvements to Dedham's land use rules.

Please visit our website and consider joining with us in this effort by becoming a member and volunteering at www.crystallakeconservancy.org.

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