

MGWA White Paper Initiative

—Updates—

Minnesota's Groundwater Education Gap Preparing Students to Effectively Manage our Groundwater Resources in the Future

MINNESOTA GROUND WATER ASSOCIATION
DECEMBER 2016



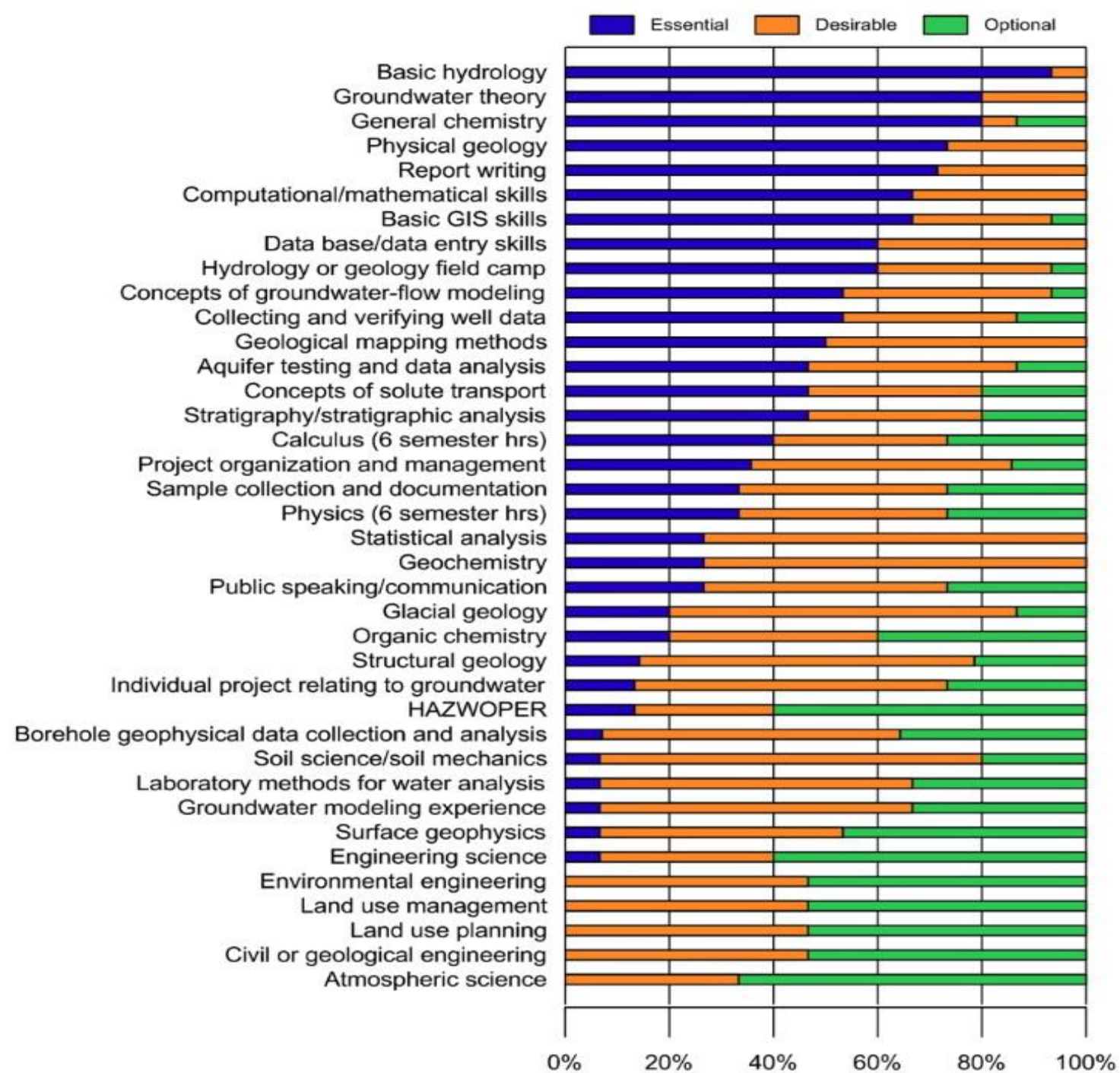
ACKNOWLEDGMENTS

WHITE PAPER WORKGROUP MEMBERS:

Jeff Stoner	Retired, Chairperson
Gilbert Gabanski	GJG Environmental Consultants, Co-chairperson
Dr. Randal Barnes	University of Minnesota
Rachel Beise	Geochemist
Jonathon Carter	Barr Engineering
Ellen Considine	Minnesota Department of Natural Resources
Bruce Olsen	Retired
Cathy Udem	Professional Geologist
Karen Voz	Minnesota Department of Health

WHITE PAPER COMMITTEE LIASIONS

Kelton Barr	Braun Intertec
Mark Collins	Retired



Postsecondary School	Number of Groundwater-Related Courses Offered	Degree Offered
Minnesota Institutions		
Carleton College	2	Geology
Gustavus Adolphus College	1	Geology
Macalester College	1	Geology
Mankato State University	1	Geology
Moorhead State University	None	Geosciences
St. Cloud State University	5	Hydrology
University of St. Thomas	2	Environmental Science or Geology
Winona State University	2	Geology
University of Minnesota		
Duluth	4	Environmental Sciences or Geology
Crookston	1	Natural Resources
Morris	2	Environmental Science
Twin Cities	6	Earth Science, Environmental Engineering, or Geoengineering
Selected Schools in Surrounding States		
Iowa State University	7	Civil Engineering, Environmental Science or Geology
North Dakota State University	1	Geology
South Dakota School of Mines and Technology	1	Geology or Geological Engineering
University of Iowa	7	Civil Engineering, Environmental Engineering, Environmental Science, or Geology
University of North Dakota	5	Environmental Geoscience, Geology, or Geoengineering
University of Wisconsin		
Eau Claire	3	Geology
Madison	5	Geology or Geological Engineering



MINNESOTA GROUND WATER ASSOCIATION

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What is a "White Paper"?

MGWA defines a white paper as an article that gives an unbiased evaluation and treatment of a topic for informational and educational purposes. Ideally, a paper will positively influence future quantity or quality of Minnesota's groundwater resources, interrelated resources, and their users. Typically, a white paper presents the technical aspects for the evaluation in summary form, but includes references to sources of more detailed information.

New White Paper Topics

Completed White Papers

[01 – Manganese in Minnesota's Groundwaters](#)[02 – Minnesota's Groundwater Education Gap](#)

White Papers in Preparation

The following topics are currently under preparation:

[03 – Drain Tiles and Groundwater Resources](#)

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& Graham, Inc.**

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Ongoing White Paper work group, *and*

Upcoming White Paper Initiatives



Gilbert Gabanski

1952 – March 31, 2017

A Remembrance



University of Minnesota Department of Earth Science
Oklahoma State University
Hanover College

**Hennepin County Dept. of
Environmental Services**

EnPro Assessment Corp.

Environmental Strategies

Summit Envirosolutions

**GJG Environmental
Consultants**

B.A. Liesch & Associates

Warzyn Engineering

Foth and Van Dyke

Minnesota Department of Natural Resources

Minnesota Geological Survey

University of Minnesota Department of Earth Science

Oklahoma State University

Hanover College





11/06/2011 17:43

A commitment to:



Minnesota Ground Water Association

1982-1985 – President of MGWA

1982 – co-founder of MGWA



MINNESOTA GROUND WATER ASSOCIATION

NEWSLETTER

Minnesota Ground Water Association, P.O. Box 3362, St. Paul, MN 55165

v.1, No. 1, OCTOBER 1982

The Minnesota Ground Water Association is unlike any other professional society in the state. The Association focuses not on one profession, but on one basic resource--ground water. As you

As you

ground water contam-

possible water supply problems.

problems cannot be provided by any one

Minnesota Ground Water Association has been

responsibility it is to solve our ground water problems, and to

promote intelligent use of ground water resources in the state:

not only hydrogeologists, but also engineers, drillers, chemists,

consultants, lawyers, academicians, administrators, regulators,

and contractors, working both in government and in the private sec-

ten. As many of you said in the MCWA questionnaire, what we need

A commitment to:



Minnesota Ground Water Association

**2016-2017 – member of 2nd White Paper
Work Group – *Gaps in MN GW Education***

2004-2013 – President of MGWA Foundation

**2002-2007 – involved in creating Big Back Yard
@ Science Museum of MN**

2002 – MGWA Foundation Director-at-Large

1982-1985 – President of MGWA

1982 – co-founder of MGWA







Science Museum of Minnesota Backyard

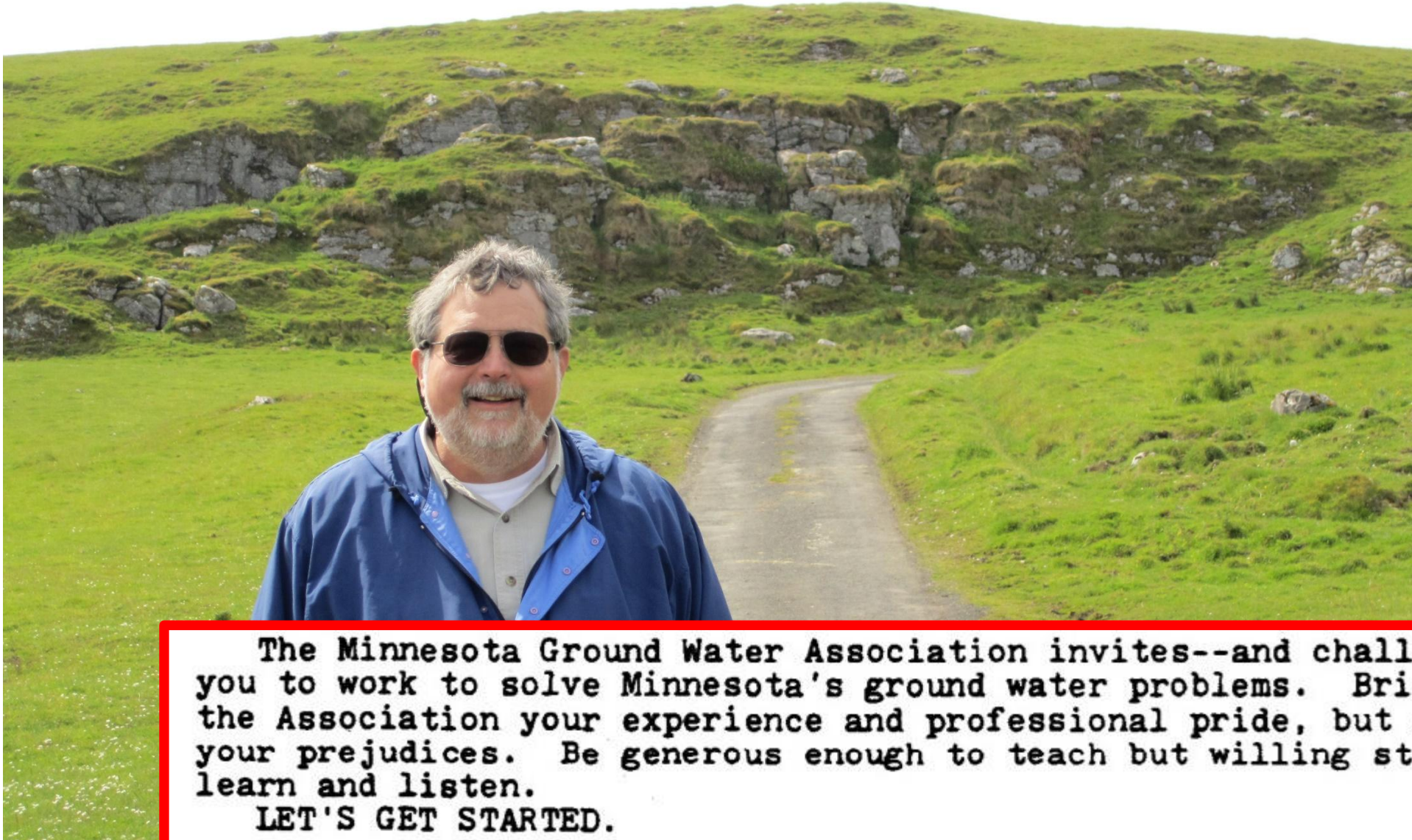
**MGWA
Foundation**







We'll miss you, Gil



The Minnesota Ground Water Association invites--and challenges--you to work to solve Minnesota's ground water problems. Bring to the Association your experience and professional pride, but not your prejudices. Be generous enough to teach but willing still to learn and listen.

LET'S GET STARTED.

Gil Gabanski, President

Memorial service for Gil Gabanski

June 8th, 3-7 pm

Gearty-Delmore Funeral Home

15800 37th Ave. N.

Plymouth, MN