

VIP K–16 Goals

- Improve student learning outcomes, as measured by high school assessments
- Improve teacher content knowledge in the sciences by providing high-quality professional development to in-service high school teachers
- Improve college faculty teaching skills by providing them with expert mentor/master teachers during summer institutes
- Enhance graduate student teaching skills by exposing them to expert mentor/master teachers during summer workshops, and having them complete a teaching portfolio
- Increase the number of undergraduate science students who choose teaching as a career.

Goals of the Conference

- Provide strategies for using DNA science and informatics in instruction.
- Provide instructional strategies to improve learning in science by ESOL students.
- Provide forum for higher education faculty to discuss methods of increasing the use of inquiry in undergraduate science instruction.
- Provide strategies to motivate and improve science learning among disruptive students.
- Provide information on the ExPERT program.
- Provide information on the “Adaptive Strategies” workshops.
- Rangefind BCR items from MCPS unit assessments.
- Log the use of inquiry activities on the project web site.
- Plan activities using the MCPS curriculum guides.
- Plan and discuss practitioner research activities.

MCPS Master Science Teachers

Beth Daniels	Einstein
Bill Morris	Walter Johnson
Catherine Ulicny	Paint Branch
Chris Canham	Wootton
Christina Baldwin	Sherwood
Dan Levin	Blair
David Culpepper	Damascus
David Gillespie	Poolesville
Diane Niedzialkowski	Springbrook
Don Demember	Whitman
Dorothy Harris	Quince Orchard
Gloria Hearne	Gaithersburg
Greg Letterman	Watkins Mill
Gregg Gochnour	Rockville
Janet Kovach	Alternative Program
Jennifer Kempf	Blair
Joelle Miller	Einstein
Kathy Bettinger	Poolesville
Kevin Martz	Richard Montgomery
Kim Ferlick	Churchill
Lisa Taschenberger	Wheaton
Meredith Zanni	Magruder
Mike Myers	Blake
Monica Cimino	Watkins Mill
Natasha Ezerski	Seneca Valley
Niambi Wills	Kennedy
Paul Kroeger	Blake
Richard Menendez	Northwest
Ron Kail	Springbrook
Serenity Bush	Springbrook
Stuart Shifrin	Whitman

VIP K–16 Partner Institutions

Montgomery County Public Schools	(MCPS)
University System of Maryland	(USM)
University of Maryland College Park	(UMCP)
Center of Marine Biotechnology	(COMB)
Univ. of Maryland Biotechnology Institute	(UMBI)
Montgomery College	(MC)
Towson University	(TU)
Maryland Sea Grant	(MDSG)
University of Maryland Baltimore County	(UMBC)
Univ. System of Maryland at Shady Grove	(USMSG)

VIP K–16 Steering Committee

Bill Krayer	MC
David May	USM
Debra Poesse	MC
Don Langenberg	USM/UMCP
Gary Coleman	UMBI
Gary Hedges	MCPS
Jonathan Kramer	MDSG
Kevin Bruce	MDSG
Leon Ukens	TU
Luz Mangurian	TU
Michael Szesze	MCPS
Nancy Shapiro	USM
Spencer Benson	UMCP
Stewart Edelstein	USMSG
Susan Blunck	UMBC

University Fellows

Silvio Avendano	UMBC
Jessica Baack	MC
Spencer Benson	UMCP
Carol Berkower	Towson
Susan Blunck	UMBC
Kevin Bruce	Sea Grant
Larry Boucher	Towson
Rachel Burks	Towson
Gary Coleman	UMBI
Meredith Davis	UMCP
Brian Fath	Towson
Adam Frederick	COMB
Sarah Haines	Towson
Sandy Honda	UMBI
Jonathan Kramer	Sea Grant
Don Langenberg	USM
Luz Mangurian	Towson
David May	USM
Debra Poesse	MC
Nancy Shapiro	USM
Phil Sokolove	UMBC
Ann Smith	UMCP
Leon Ukens	Towson

VIP K–16 ★ Cohort Conference IIA

Biology Teachers



Designing Effective Science Learning Environments Through Inquiry

DATE: November 11, 2004
LOCATION: USM Shady Grove

NEXT CONFERENCES

DATE: February 10 and 15, 2005
LOCATION: USM Shady Grove



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Cohort Conference IIA: Biology Teachers

NOEMBER 11, 2004, UNIVERSITY SYSTEM OF MARYLAND AT SHADY GROVE

Time	Activity	Facilitator	Location
7:30	Registration		Bldg 2
8:00	Welcome, Goals, Agenda	Izzy Kovach, Greg Letterman	Potomac-Rockville
8:15	General Session Bioinformatics: Using DNA Science and Informatics as Teaching Tools	Keith McKenney, George Mason University	Potomac-Rockville
9:30	Break		
9:45 (MCPS)	Special Workshop Session: ESOL Strategies	Afie Mirshah-Nayar, Lois Wions	Potomac-Rockville
9:45 (USM)	Special Discussion Session: Inquiry in Instruction	David May	1012
11:30	Lunch		
12:15–12:45	Updates: ExPERT Program, Adaptive Strategies Workshops		
12:45–1:30	Concurrent Breakout Sessions (Choose 3)		
	Motivating Disruptive Students	Judy Duffield	Potomac-Rockville
	BCR Rangefinding: MCPS Unit test items	Dave Stevens	1012
	Activity Log Editor	Kevin Bruce	210, Computer lab
	Curriculum Planning	George Morse	1022
	Practitioner Research Planning	Kate Ulicny	1032
1:30 –1:40	Break		
1:40 –2:25	Breakout sessions repeated		
2:25 –2:35	Break		
2:35 –3:15	Breakout sessions repeated		
3:15 –4:00	Reflection, Evaluation, Closure	MSTs, Fellows	Potomac-Rockville

Next Conferences: February 10 and 15, 2005 at USM Shady Grove



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