

**Opening Remarks
To
Senate Committee on Homeland Security,
Veterans and Military Affairs**

March 12, 2003

Good morning Chairman and members of this Committee

I am pleased to be here today to discuss emergency management and issues facing the state. I am pleased that Governor Doyle has asked that I continue to serve the citizens of our state at such a challenging time.

Since my retirement from the Coast Guard in October 1999, I have had the privilege to serve as Administrator of Wisconsin Emergency Management for three governors. I believe this reflects that emergency management truly is a bipartisan discipline and our citizens do not care what side of the aisle one may sit, what is most important is how we protect and serve Wisconsin citizens during times of emergencies.

I am pleased that over the past 3-1/2 years, we have worked hard to coordinate federal, state agencies and local units of government to tackle a myriad of challenges.

I first became Administrator several months before the Y2K rollover. I worked aggressively to get up to speed, ensured last minute preparedness steps were taken, and conveyed a message of calm preparedness to the general public. While Y2K turned out to be a non-event,

several state and local agencies have said that due to the Y2K preparations, they were better able to respond to actual emergencies that did occur.

I am proud that during my tenure we have responded, without delay, to numerous significant weather events. Over this time, we have received four Presidential Disaster Declarations, including the near record Mississippi River flooding, the devastating tornadoes in Siren in 2001 and in Ladysmith in 2002. We also worked hard to gain a federal snow emergency for the record-breaking snows of December 2000. Altogether, our response and recovery efforts resulted in over \$50 million in federal disaster assistance coming to Wisconsin, thereby easing the burden on local units of government and our taxpayers.

While we did not wake up on September 12 and begin our terrorism preparedness efforts, we certainly have redoubled our efforts since the attack on America. I was asked to co-chair the Governor's Task Force on Terrorism Preparedness, comprised of 21 dedicated professionals, which has provided our state with 31 recommendations to further strengthen our preparedness efforts.

To date, Wisconsin Emergency Management has overseen over \$13 million in terrorism preparedness grants that have provided a good foundation for our response community. Is it enough, no, but we welcome the dollars that have come in and we look forward to additional funding in the future.

With that money, we are training and equipping our first responders, ensuring that those who must go into harm's way have the best gear. We recognized that to be successful we had to build regional capabilities first, such as regional hazardous materials teams and bomb squads, and then work down to the hometown so we don't duplicate the outfitting of teams with similar equipment when the need is not there. We are well on our way in getting the money down to the hometown.

Just last week, Secretary Ridge announced the availability of the 2003 State Homeland Security Grant Program dollars. Wisconsin will receive \$10,565,000. This money will be allocated as follows:

Equipment	\$7,414,000
Exercise	\$1,854,000
Training	\$ 556,000
Planning	<u>\$ 741,000</u>
Total	\$10,565,000

Although Wisconsin Emergency Management will no longer be the State Administering Agency for this grant, we will work closely with the recently designated State Administering Agency, the Office of Justice Assistance, to ensure that this money will continue to be distributed to our local units of government in accordance with the strategic plan. You may recall that we were the 10th state in the nation to complete this rigorous planning effort, which was necessary prior to the distribution of these grant dollars. We worked feverishly to ensure our first responders did not have to wait for the equipment.

At a time when state budgets are strained, these funds, along with earlier dollars, have made a difference in Wisconsin.

I would be remiss not to use this opportunity to briefly outline some of the other responsibilities we undertake. We have two nuclear plants within our state, Point Beach and Kewaunee Nuclear Power plant and a third nuclear plant, Prairie Island across the Minnesota border near Pierce County. We also monitor security efforts in the decommissioned plant in Vernon County and remain abreast of the Zion Plant in Illinois. We regularly conduct exercises to ensure our citizens are properly prepared to evacuate in the event that an accident was to occur. Annually we certify that our planning efforts are in place and are effective.

My staff also oversees the Emergency Planning and Community Right to Know Act funding that comes into the state. Each chemical facility that possesses certain quantities of hazardous substances is required to report their levels of chemicals so local response agencies have emergency response plans in place and are prepared when they respond. We have 7,000 EPCRA (chemical) facilities in Wisconsin, and of these, 3,000 are required to develop plans in the event of a fire at the facility.

Wisconsin Emergency Management also contracts with Wisconsin's 8 Level "A" Hazardous Materials Regional Response Teams. During the past three and a half years we have exercised due diligence in designing a budget allocation model that more equitably distributes the funding. We added La Crosse Fire Department as a member of the system and consolidated the Oshkosh-Appleton team into one team, when in the past they were separate. Lastly, we called on the Legislative Audit Bureau to conduct an audit of our contracts to

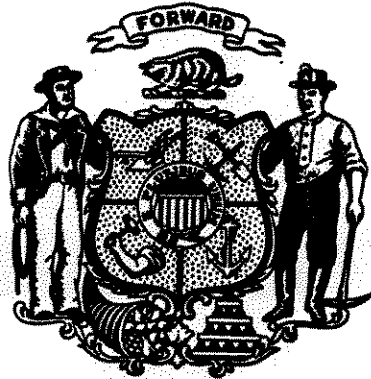
ensure there were good financial controls in place. The audit confirmed state dollars were being appropriately spent. We are stronger for undertaking these initiatives.

We have undertaken mitigation efforts throughout the state, buying flood-ravaged homes in Eau Claire, on the Fox River in Kenosha County, along the Mississippi and a number of places throughout Wisconsin. We have taken steps to ensure that these families who once lived in these acquired homes will no longer be impacted by future storms.

I want to conclude by saying we now have emergency management programs in all 72 counties and all counties are receiving federal funds to support their operations. When I came on board, we had policies in place that prevented some counties from taking advantage of these funds. We developed a budget model to properly allocate these funds. We eliminated restrictive rules. We now permit local units of government to expend these dollars in a manner that gives them flexibility to develop their emergency management program in the size and shape that meets their communities' needs.

We have done a lot of work, but don't feel that we are finished. War clouds loom overseas and my challenge in the weeks ahead will be to ensure that Wisconsin remains ready. The initiatives over the past three and a half years have positioned us to be ready, but we need to work each and every day to ensure we maintain that edge, ready to respond to severe weather, chemical or threats of terrorism. Thank you for your time.

END



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TOMMY G. THOMPSON

**Governor
State of Wisconsin**

GOVERNOR'S APPOINTMENT

NAME/MAILING ADDRESS: Donald L. Heiliger
2433 Leslie Road
Stoughton, WI 53589

E-MAIL ADDRESS: heiliger@itis.com

RESIDES IN: Stoughton

TELEPHONE: 608/873-8613 (H)

OCCUPATION: Town Clerk, Town of Dunkirk
Supervisor, Dane County District 35

APPOINTED TO: Board of Veterans Affairs
(veteran)

TERM: a six year term to expire May 1, 2005

SUCCEEDS: Lewis B. Harned
835 Farwell Drive
Madison, WI 53704

SENATE CONFIRMATION: required

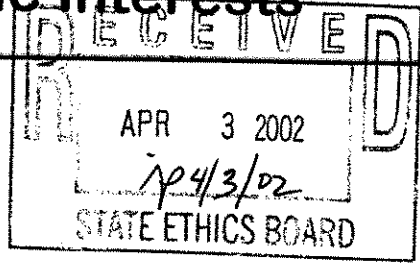
DATE OF APPOINTMENT: September 2, 1999

DATE OF NOMINATION: September 2, 1999

COMPENSATION: reimbursement of expenses

Statement of Economic Interests

Filed in 2002 for calendar year 2001



Name: Heiliger, Donald L.
 State position: Madison Area Technical College District Board Member
 (held or sought)

SEE INSTRUCTIONS FOR EXPLANATION AND EXCEPTIONS.

•Questions about completing this form? Call (608) 266-8115 •Other inquiries (608) 266-8123 •Attach additional pages as needed

Part A

As of December 31, 2001

1. List STOCKS, BONDS, limited partnerships, Wisconsin governmental securities, and mutual and money market funds you or your family held (minimum \$5,000).

Name of security	Type of security - "✓" one					Amount - "✓" one	
	stock/ option/ futures	bond	limited partnership	Wisconsin governmental security	mutual or money mkt fund	\$50,000 or less	More than \$50,000
See attached list							

2. List BUSINESSES and INCOME-PRODUCING REAL ESTATE in which you or your family had a 10% or greater ownership interest.

Name of business (if any) or business activity, or address of real estate	Municipality	State	If real estate, list County	Describe nature of business
None				

a) For each general partnership or non-Wisconsin entity you listed in Item #2, list the GENERAL PARTNERS or the OFFICERS and DIRECTORS.

Business	Partners, or officers and directors	City	State
None			

b) For each enterprise you listed in Item #2 that is an unincorporated business, a subchapter S corporation, a service corporation (SC), a limited liability company (LLC), a partnership, or income-producing real estate, list BUSINESSES, ORGANIZATIONS, and any LOBBYISTS that were CUSTOMERS, CLIENTS, or TENANTS that paid the enterprise \$1,000 or more in calendar year 2001.

Businesses, organizations, lobbyists that were customers, clients, or tenants	City	State
None		

3. List the specific location of WISCONSIN REAL ESTATE in which you or your family had an interest (except your principal residence and real estate whose location you listed in item 2).

LOCATION OF PROPERTY			NATURE OF INTEREST (own, lease, option, easement, land contract)
Street address or fire number	Municipality	County	
None			

4. List ORGANIZATIONS of which you or a family member was an OFFICER or DIRECTOR.

Business or organization	City	State	Position
Madison Area Technical College	Madison	WI	Treasurer
Wisconsin Board of Veteran Affairs	Madison	WI	Vice Chairman of Board

5. List ORGANIZATIONS THAT AUTHORIZED YOU OR A FAMILY MEMBER TO REPRESENT THEM in their dealings with others as an attorney-at-law, agent, spokesperson, or representative (unless listed in item 4 or 7).

Business or organization	City	State
None		

6. List CREDITORS to which you or your family owed \$5,000 or more.

Creditor	City	State	"✓" one	
			\$5,000 or less	More than \$5,000
Countrywide Home Loans	Simi Valley, CA	CA		✓

Part B

For calendar year 2001

7. List your and your family's EMPLOYERS (\$1,000 or more of income) in 2001.

Name of employer (If State of Wisconsin, identify agency or institution)	City	State	Nature of employer's business
Dane County Board of Supervisors	Madison	WI	County Government
Our Saviours Lutheran Church	Madison	WI	Church - organized

8. List OTHER SOURCES from which you or your family received INCOME of \$1,000 or more in 2001.

Source of income	City	State
USAF Retirement	Cleveland	OH
VA Social Security	Washington	DC

9. List individuals and organizations that provided you with ENTERTAINMENT or GIFTS (more than \$50) in 2001.

Name of provider	City	State
None		

10. List, for 2001, sources of HONORARIA and payment of EXPENSES related to your state government duties (more than \$50) not previously reported to the Ethics Board.

Payer	Approximate value of expenses	Amount of honorarium	Circumstances of receipt
None			

I have read the accompanying instructions and certify that the information contained in this Statement of Economic Interests is true, complete, and correct to the best of my knowledge, information, and belief. If any part has been left blank, I have done so intentionally because there is nothing to report.

Signature of person filing: Donald Heiliger Date: 1A pr02 Daytime phone #: 608/873-8613
E-mail address: heiliger@chorns.net

The information sought in this form is required by §§19.43 and 19.44, Wisconsin Statutes. Failure to file a completed form may result in a forfeiture of up to \$500. Statements of Economic Interests are open for public inspection. The Ethics Board will notify you of the identity of any person who examines your Statement. In accordance with §15.04(1)(m), Wisconsin Statutes, the Ethics Board states that no personally identifiable information is likely to be used for purposes other than those for which it is collected.

Donald L. Heiliger
 Statement of Economic Interests, filed 2002

Part A. Investments

1. Stocks, Bonds, etc. over \$5,000:

Name of Security	Type of Security	\$50,000 Or less	More than \$50,000
AMEX S&P 500 Index Fund	Stock	x	
Bank One Corp	Stock	x	
Kohls Corporation Wisc	Stock	x	
Target Corporation	Stock	x	
United Technologies Corp	Stock	x	
DeForest Wis Area Sch Dist	Muni Bond	x	
Wisconsin St. Clean Water Rev. Ser	Muni Bond	x	
Wisconsin St. General Obligation Ser. D	Muni Bond	x	
Wisconsin St. Pub Pwer Supply	Muni Bond	x	
Illinois St. Gen Oblig	Muni Bond	x	
Michigan St. Hosp Fin Au Mercy Health Svcs	Muni Bond	x	
Houston TX Wtr Swer Sys Rev	Muni Bond	x	
Chicago Ill Sales Tax Rev	Muni Bond	x	
Norther Ill University Rev	Muni Bond	x	
Austin Tex Water & Wastewater Sys Rev	Muni Bond	x	
Motorola I Toprs 6680	Corporate Bond	x	
Countrywide Home 1999 10 All	Corporate Bond		x
MFS Total Return Fund B	Mutual Fund		x
MFS investors Growth Stk B	Mutual Fund	x	
Unit VK Focus Portfolio Fin Institutions Ser A7	Investment Trust	x	
City National Bank Beverly Hills, CA CD	Cert. of Deposit	x	
Broadcom Corp CL A	Stock	x	
Harley Davidson	Stock	x	
Ocean Energy Inc. New	Stock	x	
Morgan Stanley	In Cash Accounts		x

DON HEILIGER

Dane County Supervisor, District 35

Don Heiliger is currently Dane County Supervisor for the 35th District, elected first in 1992 and reelected in 1994, 1996, and 1998. He is currently chairman of the Public Protection and Judiciary Committee which oversees budgets for the Sheriffs Department, County Jail and Court System. He is also Vice-Chairman of the Land Conservation and University Extension Committees. During his second term, he served as chairman of the Personnel and Finance Committee which oversees all aspects of County finances and monitors personnel policies and bargaining with the eight different unions serving County workers. He is currently secretary of the Regional Planning Commission and serves on its executive committee. He is chairman of the Information Resources Committee and is a member of the Cultural Affairs Commission, appointed by the County Executive. He served on both the Excellence in Dane Task Force and the Glass Ceiling Task Force (appointed by then Chairman Blaska). Don was just reappointed as a member to the Madison Area Technical College Board of Directors and is beginning his fifth year. He is a commissioner of the Dunkirk Dam Lake District which two years ago acquired the Dunkirk Dam on the Yahara River for the purposes of environmental enhancement and recreation.

Don Heiliger resides with his wife, Cheryl, and their three sons—Don, Jr. (19), Daniel and David (14 year old twins)—at 2433 Leslie Road, in the Township of Dunkirk, south of Stoughton, Wisconsin. He was reelected to a fourth term as clerk of the township in 1999. Don is a Realtor, drove a school bus for the Stoughton Area School District and is still on call; is chairman of the Christian Service Committee of the Evangelical Lutheran Synod; and is Past-President of Stoughton Rotary having just completed 1 ½ years as president.

Don was born in Madison, Wisconsin. He graduated from Madison East High School (1954) and with honors from the University of Wisconsin, Madison (1958) earning a bachelor's degree in business administration, majoring in accounting. He received a commission as a second lieutenant in the United States Air Force through the Reserve Officers' Training Corps program, and was named a Distinguished Graduate. Don earned a Master's Degree in Latin American studies from The George Washington University (1975) and is a graduate of Squadron Officer School and the Industrial College of the Armed Forces.

Don retired as a colonel from the United States Air Force in 1985, after a 30-year career. He was both a fighter pilot and a navigator. In 1967, while piloting an F-105 in the Vietnam War, he was shot down on his 44th combat mission and spent nearly six years as a Prisoner-of-War in North Vietnam. After his return to freedom in 1973, he continued in the USAF until his retirement, his last assignment being the senior U.S. military representative to Israel as the Defense and Air Attache in Tel Aviv—where Daniel and David were born. Prior to Israel, Don was Chief of the International Affairs Division in the office of the USAF Vice-Chief of Staff in the Pentagon. Earlier he served two other diplomatic assignments representing the United States and the USAF as Air Attache—first to Montevideo, Uruguay and then to Santiago, Chile. Don and his wife, Cheryl, both speak fluent Spanish as a result of the two attache assignments in South America and also Hebrew from their assignment in Israel.

After retiring from the USAF, he worked from 1985-88 as Executive Vice-President of Fettig, Inc., a major Washington, D.C. marketing and consulting firm, where he managed multi-million dollar contracts for both domestic and foreign clients. Don and his family moved to Stoughton in 1987 and he commuted to Washington, D.C. his last year with Fettig, Inc. Cheryl just retired from teaching grades 1-3 at Western Koshkonong Lutheran School outside of Stoughton but continues as the organist at Our Saviour's Lutheran Church in Madison. This fall, Don, Jr. will be a junior at the University of Wisconsin-Madison majoring in industrial engineering and twins, Daniel and David, will be freshmen at Stoughton High School.

Don is a senior pilot with over 1,000 flying hours as a pilot and more than 2,000 hours as a navigator. His military decorations and awards include the Silver Star with one oak leaf cluster, the Legion of Merit with one oak leaf cluster, the Defense Superior Service Medal, the Defense Meritorious Service Medal, the Air Medal with two oak leaf clusters, the Air Force Commendation Medal, Purple Heart with one oak leaf cluster, the Prisoner-of-War Medal, and the Vietnam Service Medal with eight service stars. He was a Distinguished Graduate of both pilot and navigator training.

Don belongs to the local chapters of the American Ex-Prisoners of War, Veterans of Foreign Wars and the American Legion and is a member of NAM-POW's, Disabled American Veterans, Am-Vets and Wisconsin Vietnam Veterans. He has worked with several Stoughton area charitable projects including helping to raise funds for the Stoughton Hospital capital campaign, "A Cornerstone of Community Health." He was an original member of the Mandt Park Community Center Steering Committee which built a combination ice-rink and community center and later served on its board of directors until mid-1997. He and Cheryl are "ambassadors" for Madison Opera to the Stoughton area.



John T. O'Brien,
Legislative Officer/Judge Advocate
Wisconsin Department Military Order of the Purple Heart
26570 Fiddlers Green Road
Richland Center, WI 53581
(608) 647-8491
John.Obrien@legis.state.wi.us

January 22, 2003

Honorable Senator Ronald Brown, Chairman
Senate Committee on Homeland Security, Veterans & Military Affairs
& Government Reform

Dear Chairman Brown & Members,

The State Department of the Military Order of the Purple Heart on behalf of all our members, Combat Wounded Veterans who have been awarded the Purple Heart respectfully requests this committee give it's unanimous support to the appointment of one of our comrades Mr. Donald Heiliger, as a member of the Board of Veterans Affairs.

During these times when our country has reawakened it's appreciation of our Veterans and the sacrifices they have made on our behalf, you have the opportunity to recognize and support one of Wisconsin's true heroes.

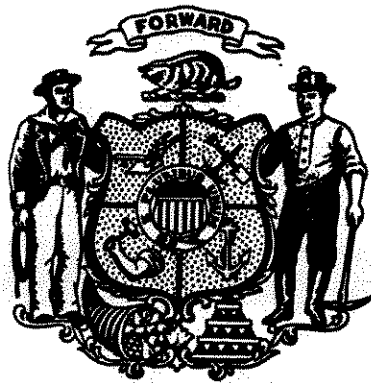
In 1967, while piloting an F-105 in the Vietnam War, Mr. Heiliger was shot down on his 44th combat mission and spent nearly six years as a prisoner of war in North Vietnam. That ordeal earned him the distinction of being a Purple Heart recipient. After his return to the United States in 1973, he continued his Air Force career until 1985 when he retired with the rank of colonel. During his 30-year career, he served in diplomatic and military assignments in Israel, Uruguay and Chile.

The Board of Veterans Affairs oversees the programs that provide the benefits and services to eligible Wisconsin veterans and their families. It is important to our organization that these positions, if possible be filled by experienced combat veterans who can relate to the ordeals which combat veterans faced during their service. Veterans and heroes like Mr. Donald Heiliger provide that type of representation.

Thank you in advance for your consideration.

John O'Brien
Legislative Officer/Judge Advocate
WI Dept. Military Order of the Purple Heart

END



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JIM DOYLE
GOVERNOR
STATE OF WISCONSIN

GOVERNOR'S APPOINTMENT

NAME: Cecilia Hillard
MAILING ADDRESS: 1623 E. Lake Bluff Blvd.
Milwaukee, WI 53211
E-MAIL ADDRESS: chillard@mcw.edu
RESIDES IN: Milwaukee, WI
TELEPHONE: (414) 456-8493 (w)
(414) 332-9372 (h)
OCCUPATION: Professor of Pharmacology, Medical College of
Wisconsin
APPOINTED TO: Controlled Substances Board
pharmacologist
TERM: A term to expire July 1, 2007
SUCCEEDS: Thomas Rudy
SENATE CONFIRMATION: Yes
DATE OF APPOINTMENT: July 8, 2004
DATE OF NOMINATION: July 8, 2004

CURRICULUM VITAE

Cecilia J. Hillard, Ph.D.
Professor of Pharmacology

1. **Home Address:** 1623 E. Lake Bluff Blvd.
Milwaukee, Wisconsin 53211
(414) 332-9372

2. **Office Address:** Department of Pharmacology and Toxicology
Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, WI 53226
Phone: 414-456-8493
Fax: 414-456-6545
e-mail: chillard@mcw.edu

3. **Place of Birth:** Portsmouth, VA

4. **Citizenship:** USA

5. **Education:**
1977 B.S. Chemistry, University of Virginia
Charlottesville, VA
1983 Ph.D., Pharmacology and Toxicology
Medical College of Wisconsin

6. **Postgraduate Training:**
1983-1985 Postdoctoral Fellow
Laboratory of Alan S. Bloom, Ph.D.
Medical College of Wisconsin
1983 Visiting Scientist
Laboratory of R. Adron Harris, Ph.D.
University of Colorado
Denver, CO
1984 Visiting Scientist
Laboratory of Miles D. Houslay, Ph.D.
University of Manchester
Manchester, England

8. **Faculty Appointments:**
7/1985-7/1993 Assistant Professor in the Traditional Path
Department of Pharmacology and Toxicology
Medical College of Wisconsin
Milwaukee, WI

7/1993-6/2003 Associate Professor in the Traditional Path
Department of Pharmacology and Toxicology
Medical College of Wisconsin
Milwaukee, WI

7/2003-present Professor in the Traditional Path with Tenure
Department of Pharmacology and Toxicology
Medical College of Wisconsin
Milwaukee, WI

10. Educational Administrative Positions:

1996-present Director,
Neuroscience Graduate Training Program
Medical College of Wisconsin

14. Awards and Honors:

1/1977 B.S. with High Distinction (i.e. Magna Cum Laude)
1988-1993 NIH FIRST Award
9/2002 MCW Society of Teaching Scholars

15. Memberships in Professional and Honorary Societies:

1983-present Society for Neuroscience
1983-present American Society for Pharmacology and
Experimental Therapeutics
1990-present International Cannabinoid Research Society
2000-present International Society for Neurochemistry

16. Editorial Boards and Review Activities:

Ad Hoc Reviewer for the following journals:

Molecular Pharmacology
Journal of Pharmacology and Experimental Therapeutics
Journal of Neurochemistry
Biochemical Pharmacology
Journal of Lipid Research
Journal of Biological Chemistry
Anesthesiology
Proceedings of the National Academy of Sciences
Brain Research
Protein Purification and Expression
Analytical Biochemistry
Trends in Neuroscience
Biochimica et Biophysica Acta
European Journal of Pharmacology
Archives of Biochemistry and Biophysics
FEBS Letters

Neuroscience
 Neuroscience Letters
 Journal of Neuroscience
 FASEB Journal
 Lipids
 Chemistry and Physics of Lipids

17. Regional/Local/Appointed Leadership and Committee Positions:

1990-1991 President, Greater Milwaukee Chapter
 Society for Neuroscience
 1990 Organizing Committee
 "Current Issues in Drugs of Abuse and the Workplace"

18. National Elected/Appointed Leadership and Committee Positions:

1990 Member, National Institute on Drug Abuse
 ad hoc Study Section
 1994 Member, National Institute on Drug Abuse
 Special Study Section
 1995-1996 Member, Multi-Emphasis Panel
 Division of Research Grants, NIH
 Small Business Initiative Proposals
 1996-2000 Member, Molecular Signaling I Study Committee
 National American Heart Association
 1997-2001 Secretary
 International Cannabinoid Research Society
 1997-2001 Member, Program Committee
 International Cannabinoid Research Society
 1998-2004 Member, Pharmacology Study Section
 Oklahoma Center for the Advancement of Science
 Technology (OCAST)
 2000-2004 Chair, Pharmacology Study Section, OCAST
 2001-2004 Member, John J. Abel Award Committee,
 American Society for Pharmacology and
 Therapeutics

and

Experimental

19. Research Grants, Contracts, Awards, Projects:

Peer Reviewed

PAST

Title: Cannabinoid Effects on Membranes and Their Constituents
 Source: NIH (R01 DA 03725)
 Role: Co-Principal Investigator
 Dates: 7/85 - 6/91

 Title: Neurochemical Mechanisms of Nicotine Tolerance

Source: Medical College of Wisconsin (BRSG)
Role: Principal Investigator
Dates: 10/85 - 9/86

Title: Neurochemical Effects of Nicotine
Source: Pharmaceutical Manufacturers Association Foundation-
Research Starter Grant;
Role: Principal Investigator
Dates: 1/86 - 12/87

Title: Nicotine Effects on Brain Synaptosomal Ion Flux
Source: Smokeless Tobacco Research Council
Role: Principal Investigator
Dates: 1/88 - 12/89

Title: Neurochemical Mechanisms of Nicotine Action
Source: NIH (R29/R01 DA 04800)
Role: Principal Investigator
Dates: 1988-1996

Title: Role of the Cannabinoid Receptor in the Induction of Immediate
Early Genes in Cerebellar Granule Cells
Source: Medical College of Wisconsin (Cancer Center)
Role: Principal Investigator
Dates: 1995-1996

Title: The Design and Construction of Botulium Toxin Drug Delivery
Vehicles
Source: Department of Defense, Small Business Innovation Research
Program
Role: Investigator
Dates: 1997

Title: Cannabinoids and Second Messengers in the Brain
Source: NIH (R01 DA08090)
Role: Principal Investigator
Dates: 4/97 - 3/00

Title: Cannabinoids and Second Messengers in the Brain-Supplement
Source: NIH (R01 DA08090-S)
Role: Principal Investigator
Dates: 4/98 - 3/00

Title: Studies of the Antiproliferative Effects of the Cannabinoids on
Breast Cancer Cells
Source: Medical College of Wisconsin Cancer Center
Role: Principal Investigator

Dates: 6/00-6/02
Title: Cannabinoid modulation of baroreflex control of blood pressure
Source: Research Affairs Committee: MCW
Role: Co-Investigator
Dates: 6/02-6/03
Direct Funds: \$11,250

CURRENT

Title: Cannabinoid Receptors and Cerebrovascular Function
Source: NIH (R01 NS41314)
Role: Principal Investigator
Dates: 2/03 – 1/07
Direct Funds \$760,000 (total for 03-07)

Title: Brain Endocannabinoids and Chronic Stress
Source: NIH (1 R01 DA016967)
Role: Principal Investigator
Dates: 8/03-7/06
Direct funds: \$525,000

Title: Biochemistry of Anandamide, an Endogenous Cannabinoid
Source: NIH (R01 DA 09155)
Role: Co-Principal Investigator
Dates: 3/96-6/05
Direct Funds \$1,200,000 (total for 00-05)

Title: Role of Neuronal NOS and Superoxide in Neurodegeneration
Source: NIH (R01 NS39958)
Role: Investigator
Dates: 3/96-7/07
Direct Funds \$1,000,000 (total for 04-07)

Title: Cannabinoids and cerebellar-prefrontal function
Source: National Alliance for Research on Schizophrenia and
Depression
Role: Principal Investigator
Dates: 9/02-9/04
Direct Funds: \$100,000 (total for 02-04)

Title: Cannabinoids and Cortical-Cerebellar Function
Source: NIH-NRSA (F30 DA15575)
Role: Mentor (M.D./Ph.D. student: Sachin Patel)
Dates: 7/02 – 6/07
Direct Funds: \$100,000

Title: Characterization of the anandamide uptake transporter
Source: NIH (F32 DA016510)
Role: Mentor (Applicant is David Rademacher, Ph.D.)
Dates: 1/03-12/05
Direct funds: \$44,608

20A. Invited Lectures/Presentations

International

C.J. Hillard and A.S. Bloom: Cannabinoids and membrane lipid ordering, Oxford Symposium on Cannabis, Oxford, England, 1984

C.J. Hillard: Cannabinoids, endocannabinoids and microglia. AstraZeneca Pharmaceuticals, Montreal, Canada, 2002

C.J. Hillard: Endocannabinoids and Stress. University of British Columbia, 2004

National

C.J. Hillard: Synaptosomal depolarization in the mechanism of action of nicotine. The University of Illinois, College of Medicine at Rockford, Department of Pharmacology and Physiology, Rockford, IL, 1991

C.J. Hillard: Mechanisms of nicotine tolerance. The University of Pittsburgh, Department of Behavioral Neuroscience, Pittsburgh, PA, 1994

C.J. Hillard, Cannabinoids and cerebrovascular function, Experimental Biology '98 Meeting, San Francisco, CA 1998

C.J. Hillard, Studies of anandamide, an endogenous cannabinoid, Finch University of Health Sciences/The Chicago Medical School, Department of Physiology and Biophysics, Chicago, IL 1998

C.J. Hillard, Studies of anandamide, an endogenous cannabinoid, Roche Bioscience Corporation, Palo Alto, CA, 1998

C.J. Hillard, Cannabinoid receptor regulation of neuronal calcium. University of North Texas, Department of Biochemistry and Molecular Biology, Denton, TX, 2000

C.J. Hillard, Endogenous ligands of cannabinoid receptors, Annual Meeting of the Society for Forensic Toxicology, Milwaukee, WI 2000

C.J. Hillard, Cannabinoid receptor regulation of neuronal calcium, Louisiana State University, Department of Pharmacology, Shreveport, LA, 2001

C.J. Hillard, Cannabinoid receptor regulation of neuronal calcium Medical College of Virginia, Department of Pharmacology and Drug Abuse Center, Richmond,

VA 2001

- C.J. Hillard, Cannabinoid receptor regulation of neuronal calcium, University of South Florida, Department of Microbiology, Tampa, FL 2001
- C.J. Hillard, Studies of endogenous cannabinoid ligands, College of Problems of Drug Dependence Annual Meeting, Symposium on Cellular Effects of Cannabinoids, Phoenix, AZ 2001
- C.J. Hillard and Christopher S. Kearns, Studies of the effects of the endocannabinoid 2-arachidonyl glycerol (2-AG) on the proliferation of rat microglial cells. International Conference on Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Related Diseases, Nashville, TN, 2001
- C.J. Hillard, Microglia, Endocannabinoids and Cannabinoid Receptors. Department of Chemistry, Kennesaw University, Kennesaw, GA, 2002
- C.J. Hillard, Microglia, Endocannabinoids and Cannabinoid Receptors. Department of Pharmacology, University of Louisville, Louisville, KY, 2002
- C.J. Hillard, Cannabinoids and the mechanism of action of general anesthesia. Department of Chemistry, University of Eastern Illinois, Charleston, IL, 2003
- C.J. Hillard, Studies of Endocannabinoid Transport and Function. Johnson and Johnson, Spring Hill, PA, 2004
- C.J. Hillard, Endocannabinoids and Stress. Butler University School of Pharmacy, Indianapolis, IN, 2004

Regional/Local

- C.J. Hillard: Drugs of Abuse, University of Wisconsin-Milwaukee/College for Seniors, Milwaukee, WI, 1989
- C.J. Hillard: Drugs of Abuse, State of Wisconsin Department of Transportation, Stevens Point, WI 1989
- C.J. Hillard: Marijuana, Milwaukee Area Chemical Dependency Research and Development Group, 1989
- C.J. Hillard: Cannabinoids and membrane lipid ordering, Medical College of Wisconsin, Department of Cellular Biology and Anatomy, 1992
- C. J Hillard: Studies of the inactivation of the endogenous cannabinoid, anandamide, Medical College of Wisconsin, Department of Physiology, 1996
- C. J. Hillard: Studies of the inactivation of the endogenous cannabinoid,

anandamide, Medical College of Wisconsin, Department of Pathology, 1997

C. J. Hillard: Effects of cannabinoids on neuronal calcium, Medical College of Wisconsin, Biophysics Research Institute, 2000

C. J. Hillard: Endogenous cannabinoids., Milwaukee County Medical Examiners, Monthly Continuing Education Program, 2000

C.J. Hillard, Microglia, Endocannabinoids and Cannabinoid Receptors. Department of Biomedical Sciences, Marquette University, 2002

20B. Symposia Organization/Chairmanships

“Anandamide, endogenous cannabinoid receptor ligand”, Experimental Biology ‘98 Meeting, San Francisco, CA 1998

21. Medical College of Wisconsin Committees:

Department of Pharmacology Committees

1992-present	New Faculty Search Committee,
1992-2000	Graduate Studies Committee

Graduate School of Biomedical Sciences Committees

1985-1986	Member, Interdisciplinary Lecture Committee
1987-1991	Member, Graduate Studies Council
1988-1996	Member, Awards Committee
1990-1991	Chairperson, Awards Committee
1996-present	Member, Graduate Studies Council
2002-2004	Chairperson, Nominating Committee

Faculty Assembly and Faculty Council Committees

1988-1991	Member, Medical School Admissions Committee
1990-1993	Member, Faculty Welfare Committee
1991-1995	Member, Nominating Committee
1995-1998	Member, Research Affairs Committee
1997-1998	Vice President, Faculty Council
1997-2003	Member, Faculty Governance Committee
1998-1999	Senior Vice President, Faculty Council
1999-2000	Chair, Faculty Governance Committee
1999-2000	President, Faculty Council
2003-2006	Academic Standing Committee

MCW Leadership Search Committees

1996	Member, Search Committee for Chair of Department of Microbiology
1998-1999	Member, Search Committee for Director of the Biophysics Research Institute
2000	Member, Search Committee for Associate Dean for Minority Affairs
2001- present	Member, Search Committee for Chair of the Department of Biochemistry

Other Committees

1987-1993	Member, Medical Scientist Training Program Steering Committee
1990	Member, MED-PREP Program Committee
1995	Member, Intramural Review Committee, Department of Microbiology
1996-1998	Member, Women's Faculty Council,
1996-1997	Member, Intramural Review Committee, Department of Psychiatry
1999- present	Member, Faculty and Staff Gift Drive Committee
1999-present	Member, Recruitment Committee for Interdisciplinary Ph.D. Program
2000-present	Member, Medical Scientist Training Program, Admissions Committee
2002	Member, LCME Accreditation Subcommittee on Research and Graduate Education

22. Medical College of Wisconsin Teaching Activities:

Medical Student Education

1983-present	Medical Pharmacology (8-14 contact hours/yr) Currently, I give 6-2 hour lectures and lead 4-2 hour small group discussions
1991-present	Integrated Medical Neuroscience (2 contact hours/yr)

Graduate Medical Education

1990 – 1997	Neurobehavioral Science (2 contact hours) Departments. of Neurology and Psychiatry
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Graduate Student Education

Lectures Given

1988	CNS Pharmacology (4 contact hours)
1989	Autonomic Pharmacology (4 contact hours)
1990	Pharmacology of Drugs of Abuse (6 contact hours)
1991	Molec Mech Biochem Pharmacol (4 contact hours)
1993-1991	Cell and Molecular Neurobiology (6 contact hours)

1995-present	Pharmacology of Ion Channels (4 contact hours)
1999- present	Cellular Signal Transduction (8 contact hours)
1999- present	Biochemistry of the Cell (10 contact hours)
Course Director:	
1988	Cellular and Molecular Neuropharmacology,.
1994	Principles of Pharmacology I (Receptors)
1995	Principles of Pharmacology II (Second Messengers)
1997-present	Neuroscience Journal Club
1998	Cellular and Molecular Neuroscience
1999-2002	Cellular Signal Transduction
1999- present	Biochemistry of the Cell (Co-director)
	This is a 10 credit course required of all first year Ph.D. students

23. MCW Students or Fellows Mentored:

Predoctoral Trainees:

Russell Wilke, Ph.D. 1993 (Medical Scientist Training Program)

Dissertation Title: Impaired Adrenomedullary Epinephrine Secretion in a Rat Model of Insulin Dependent Diabetes Mellitus

Current position: Department of Internal Medicine, Marshfield Clinic

Joseph G. Lee, M.S., 1993

Thesis Title: Laser Doppler Measurement of the Effects of Anesthetics on Rat Brain Microcirculation

Current position: Practicing Anesthesiologist, Shannon, Ireland

Shanmugam Muthian, Ph.D., 2000

Dissertation Title: The Role of the CB1 Cannabinoid Receptor in Focal Cerebral Ischemia-Reperfusion Injury

Current Position: Scientist, Pharmacia Corporation, St. Louis MO

Abbas Jarrahian , M.S., 1998, Ph.D., 2001

Dissertation Title: Characterization of an *N*-Arachidonylethanolamine (Anandamide) Transport Process in Cerebellar Neurons

Current Position: Assistant Professor of Pharmacology, Butler University, Indianapolis, IN

Christopher S. Kearn, Ph.D., 2002

Dissertation Title: Cannabinoid Modulation of Resident Immune Function of the Central Nervous System

Current Position: Postdoctoral fellow with Dr. Ken Mackie, University of Washington

Awarded the Coy Waller Award for best predoctoral student presentation 3 times at the International Cannabinoid Research Society Annual Meeting

Sachin Patel, Ph.D., 2004

Dissertation Title: Endocannabinoid Signaling as a Novel Modulator of Limbic Function

Current Position: M3 student at the Medical College of Wisconsin
Awarded individual NRSA for MD/PhD trainees

Current Predoctoral Students

Erica Carrier (Ph.D. Expected 2005)

Sarah Meier (Ph.D. Expected 2007)

Dissertation/Thesis Committee Member

Lorie Pelc, M.S., Ph.D. 1987

J. Craig Hartman Ph.D., 1990

Peter Langenstroer, M.S., 1990

Martin Volk, M.S., 1991

John A. Auchampach, Ph.D., 1992

Hailing Zhang, M.S., 1994

Paul Pagel, M.D., Ph.D., 1994

Jo El Schultz, Ph.D., 1997

Philip Pratt, Ph.D., 1997

Eric Ferguson, Ph.D., 1998

Bjorn Porgilsson, M.S., 2000

Zheng Zhong Xi, 2000

Sahara Dijaral, M.S., 2002

Reza Taheri, Ph.D., 2002

Mark Koeppel, Ph.D. 2003

Ann Tobin (current candidate)

Hiromi Sato (current candidate)

Dissertation/Thesis Committee Member (Other Institutions)

Sumi Fong Lee, Ph.D. 2001 University of South Florida

(Served as the Chair of the defense committee and expert examiner)

Postdoctoral Trainees:

Ola Blomquist, M.D., Ph.D.

Current position-Faculty, Department of Pharmacology, University of Goteborg, Sweden

M. Isabel Nogueron, Ph.D.

Current position-High School Science Teacher, City of Milwaukee Public Schools

David Rademacher, Ph.D.

Current fellow

Vanessa Ho, Ph.D.

Current fellow

Undergraduate and High School Student Mentoring

1995

Beth Fehring, Minority Summer Research Training Program

1996

Kristin Kurzawa, SPUR

1996	P.J. McGinley, SPUR
1997	Jason Duex, UW-Stevens Point January Experience
1997	Sean Tracy, SPUR
1998	Ferenc Pommersheim, SPUR
1998	Peter Schmidt, SPUR
1999	Aurelie Cabou, SPUR
1999	Alexander Uihlein, SPUR
2000	LaToya Perry, Minority Summer Research Training Program
2000	Sachin Patel, MCW Medical Student Fellowship
2001	Maria Delgado, SPUR
2001	Andrew Barkmeier, MCW Medical Student Fellowship
2002	Annie Lauer, High School Science Fair Mentor (Won first place in state of Wisconsin)
2002	Starr Camerron, SPUR
2002	Jennifer Van Asten, MCW Medical Student Fellowship

24. Community Service Activities:

1992-1995	Member, UWM Child Care Center Review Board
1999	Member, School Drug Abuse Curriculum Committee for the Shorewood, WI
2001- 2002	Member, Board of Directors, RESPONDS (Drug Abuse Awareness Community Group) Shorewood, WI
2001	Member, Science Building Renovation Committee Shorewood High School, Shorewood, WI

25. Programmatic Developments:

1996	Member, Committee that created Neuroscience Ph.D. Training Program
1997	Rewrote small group Pharmacokinetic exercise for Medical Pharmacology course
1998	Member, Committee to design core curriculum for first year Biomedical Science Ph.D. students
1999	Revamped Department of Pharmacology Graduate Courses
2000-present	Member, Neuroscience Research Initiative

BIBLIOGRAPHY**Refereed Journal Publications/Original Papers**

- 1) Bloom, A.S. and Kiernan, C.J.: Interaction of ambient temperature with the effects of Δ^9 -tetrahydrocannabinol on brain catecholamine synthesis and plasma corticosterone levels. *Psychopharmacology* 67: 215-219, 1980.
- 2) Hillard, C.J. and Bloom, A.S.: Δ^9 -Tetrahydrocannabinol-induced changes in beta-adrenergic receptor binding in mouse cerebral cortex. *Brain Res.* 235: 370-377, 1982.
- 3) Hillard, C.J. and Bloom, A.S.: Possible role of the prostaglandins in the effects of the of the cannabinoids on adenylate cyclase activity. *Eur. J. Pharmacol.* 91: 21-27, 1983.
- 4) Hillard, C.J., Farber, N.E., Hagen, T.C. and Bloom, A.S.: The effects of Δ^9 -tetrahydrocannabinol on serum thyrotropin levels in the rat. *Pharmacol. Biochem. Behav.* 20: 547-550, 1984.
- 5) Hillard, C.J., Harris, R.A. and Bloom, A.S.: Effects of the cannabinoids on physical properties of brain membranes and phospholipid vesicles: Fluorescence studies. *J. Pharmacol Exp. Ther.* 232: 579-588, 1985.
- 6) Hillard, C.J., Bloom, A.S. and Houslay, M.D.: Effects of Δ^9 -tetrahydrocannabinol on glucagon receptor coupling to adenylate cyclase in rat liver plasma membranes. *Biochem. Pharmacol.* 35: 2797-2803, 1986.
- 7) Eskinder, H., Hillard, C.J., Olinger, G.N., Christensen, C.W., Baker, J.E., Warltier, D.C. and Gross, G.J.: Alpha adrenoceptor subtypes and receptor reserve in human versus canine saphenous vein: sensitivity to blockade by nitroglycerin. *J. Pharmacol. Exp. Ther.* 247: 941-948, 1988.
- 8) Eskinder, H., Hillard, C.J., Wilke, R.A. and Gross, G.J.: Effect of KT-362, a putative intracellular calcium antagonist on norepinephrine-induced contraction and inositol monophosphate accumulation in canine femoral artery. *J. Cardiovascular Pharmacol* 13: 502-507, 1989.
- 9) Hillard, C.J., Pounds, J.J., Boyer, D.R. and Bloom, A.S.: Studies of the role of membrane lipid order in the effects of Δ^9 -tetrahydrocannabinol on adenylate cyclase activation in heart. *J. Pharmacol. Exp. Ther.* 252: 1075-1082, 1990.
- 10) Hillard, C.J., Hruz, P.W. and Gross, G.J.: Comparisons of the vasodilation and inhibition of phosphatidylinositol hydrolysis produced by KT-362 and TMB-8 in canine femoral artery. *J. Vascular Med. Biol.* 3:1-4, 1991.
- 11) Hillard, C.J. and Pounds, J.J.: Studies of the effects of nicotine on synaptosomal membrane potential using ^3H -tetraphenylphosphonium. *J. Pharmacol. Exp. Ther.* 259:1118-1123, 1991.

- 12) Eskinder, H., Hillard, C.J., Flynn, N., Bosnjak, Z.J., and Kampine, J.P.: Role of guanylate cyclase-cyclic GMP systems in halothane-induced vasodilation in canine cerebral arteries. *Anesthesiology* 77: 482-487, 1992.
- 13) Hillard, C.J.: Nicotine-induced depolarization of cerebral cortical synaptosomes is dependent upon sodium. *Neuropharmacol.* 31: 909-914, 1992.
- 14) Hillard, C.J. and Pounds, J.J.: Evidence for down-regulation of the effect of *in vitro* nicotine on cerebral cortical synaptosomal membrane potential after chronic nicotine treatment. *J. Neurochem.* 60: 687-695, 1993.
- 15) Wilke, R.A., Riley, D.A., Lelkes, P.I. and Hillard, C.J.: Decreased catecholamine secretion from the adrenal medullae of chronically diabetic BB-Wistar rats. *Diabetes* 42: 862-868, 1993.
- 16) Hillard, C.J. and Auchampach, JA: *In vitro* activation of brain protein kinase C by the cannabinoids. *Biochim. Biophys. Acta* 1220: 163-170, 1994
- 17) Wilke, R.A. and Hillard, C.J.: Decreased adrenal medullary catecholamine release in spontaneously diabetic BB-Wistar rats: role of hypoglycemia *Diabetes* 43: 724-729, 1994.
- 18) Lee, J.G., Hudetz, A.G., Smith, J.J., Hillard, C.J., Bosnjak, Z.J., and Kampine, J.P.: The effects of halothane and isoflurane on cerebrocortical microcirculation and autoregulation as assessed by laser-Doppler flowmetry. *Anesthesia and Analgesia* 79: 58-65, 1994.
- 19) Hillard, C.J., Edgemond, W.S. and Campbell, W.B.: Characterization of ligand binding to the cannabinoid receptor of rat brain membranes using a novel method: application to anandamide *J. Neurochem.* 64: 677-683, 1995.
- 20) Edgemond, W.S., Campbell, W.B. and Hillard, C.J.: The binding of novel phenolic derivatives of anandamide to brain cannabinoid receptors. *Prostaglandins Leukotrienes and Essential Fatty Acids* 52: 83-86, 1995.
- 21) Lee, J.G., Smith, J.J., Hudetz, A.G., Hillard, C.J., Bosnjak, Z.J., and Kampine, J.P.: Laser-Doppler measurement of the effects of halothane and isoflurane on the cerebrovascular CO₂ response in the rat. *Anesthesia and Analgesia* 80: 696-702, 1995.
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- 24) Smith, J.J., Lee, J.G., Hudetz, A.G., Hillard, C.J., Bosnjak, Z.J., Pelligrino, D.A., Kampine, J.P.: The role of nitric oxide in the cerebrovascular response to hypercapnia. *Anesthesia and*

Analgesia 84: 363-369, 1997.

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- 34) Hillard, C.J., Manna, S., Greenberg, M.J., DiCamelli, R., Jarrahan, A., Ross, R.A., Stevenson, L.A., Murphy, V., Pertwee, R.G. and Campbell, W.B.: Synthesis and characterization of potent and selective agonists of the neuronal cannabinoid receptor (CB1). *J. Pharmacol. Exper. Ther.* 289: 1427-1433, 1999
- 35) Hillard, C.J., Muthian, S and Kearns, C.S.: Effects of CB1 cannabinoid receptor activation on cerebellar granule cell nitric oxide synthase activity. *FEBS Letts.* 459: 277-281, 1999.

- 36) Muthian, S., Nithipatikom, K., Campbell, W.B. and Hillard, C.J.: Synthesis and characterization of a fluorescent substrate for the *N*-arachidonylethanolamine (anandamide) transmembrane carrier. *J. Pharmacol. Exp. Ther.* 293: 289-295, 2000.
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- 38) Jarrahan, A., Manna, S., Edgmond, W.S., Campbell, W.B. and Hillard, C.J.: Structure-activity relationships among *N*-arachidonylethanolamine (anandamide) head group analogs for the anandamide transporter. *J. Neurochem.* 74: 2597-2606, 2000.
- 39) Hillard, C.J.: Perspectives in Pharmacology: Cannabinoids and vascular function. *J. Pharmacol. Exper. Ther.* 294: 27-32, 2000.
- 40) Hillard, C.J. and Jarrahan, A.: The movement of *N*-arachidonylethanolamine (anandamide) across cellular membranes. *Chem. Physics Lipids* 108:123-134, 2000.
- 41) Tyler, K., Hillard, C.J. and Greenwood-Van Meerveld, B. Inhibition of small intestinal secretion by cannabinoids is CB1 receptor mediated in rats. *Eur. J. Pharmacol.* 409: 207-211, 2000.
- 42) Pratt, P.F., Li, P., Hillard, C.J., Kurian, J. and Campbell, W.B.: Endothelium-independent, ouabain-sensitive relaxation of bovine coronary arteries by epoxyeicosatrienoic acid. *Amer. J. Physiol.* 280: H1113-H1121, 2001
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- 44) Patel, S. and Hillard, C.J.: Cannabinoid CB1 receptor agonists produce cerebellar dysfunction in mice. *J. Pharmacol. Exp. Ther.* 297: 629-637, 2001.
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- 47) Berdyshev, E.V., Schmid, P.C., Krebsbach, R., Hillard, C.J., Huang, C., Chen, N., Dong, Z. and Schmid, H.H.O.: Cannabinoid receptor-independent cell signaling by *N*-acylethanolamines. *Biochem. J.* 360: 67-75, 2001.
- 48) Van Sickle, M.D., Oland, L.D., Ho, W., Hillard, C.J., Mackie, K., Davison, J.S., and Sharkey,

- K.A.: Cannabinoids inhibit emesis through CB1 receptors in the brainstem of the ferret. *Gastroenterology* 121: 767-774, 2001. (Was used as the cover picture for the issue)
- 49) Romero, J., Hillard, C.J., Calero, M. and Rabano, A. Fatty acid amide hydrolase localization in the human central nervous system: an immunohistochemical study. *Molec. Brain Res.* 100: 85-93, 2002.
- 50) Patel, S., Gerrits, R., Muthian, S., Greene, A.S. and Hillard, C.J. The CB₁ receptor antagonist SR141716 enhances stimulus-induced activation of the primary somatosensory cortex of the rat. *Neurosci. Letts.* 335: 95-98, 2002.
- 51) Patel, S. and Hillard, C.J. Cannabinoid-induced fos expression within A10 dopaminergic neurons: subregion-specific mediation by alpha₁-adrenergic receptors. *Brain Res.* 963: 15-25, 2003. (Figure from the paper was used as cover for this issue)
- 52) Kalivendi, S.V., Kotamraju, S., Cunningham, S., Shang, T., Hillard, C.J. and Kalyanaraman, B. 1-Methyl-4-phenylpyridinium (MPP⁺)-induced apoptosis and mitochondrial oxidant generation: role of transferrin-receptor-dependent iron and hydrogen peroxide. *Biochem. J.* 371:151-164, 2003.
- 53) Shang, T., Uihlein, A.V., Van Asten, J., Kalyanaraman, B., and Hillard, C.J. 1-Methyl-4-phenylpyridinium (MPP⁺) accumulates in cerebellar granular neurons via organic cation transporter-3 (OCT3). *J. Neurochem.* 85:358-367, 2003.
- 54) Rademacher, D.J., Patel, S., Hopp, F.A., Dean, C., Hillard, C.J.* and Seagard, J.L. Microinjection of the CB₁ receptor antagonist, SR141716, into the nucleus tractus solitarius increases baroreflex duration in dogs. *Am. J. Physiol. Heart Circ Physiol.* 284:H1570-1576, 2003.
- 55) Sato, H., Frank, D.W., Hillard, C.J., Pankhaniya, R., Moriyama, K., Finck-Barbancon, V., Buchaklian, A., Lei, M., Long, R.M., Wiener-Kronish, J. and Sawa, T. The mechanism of action of the *Pseudomonas aeruginosa*-encoded type III cytotoxin, ExoU *EMBO Journal* 22:2959-2969, 2003.
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- 58) Patel, S., Rademacher, D.J. and Hillard, C.J. Differential regulation of endocannabinoids anandamide and 2-arachidonylglycerol within the limbic forebrain by dopamine receptor activity. *J. Pharmacol. Exp. Ther.* 306:880-888, 2003.

- 59) Hillard, C.J. and Jarrahan, A. Anandamide movement across biological membranes: consensus and controversy. *Brit. J. Pharmacol.* 140:802-808, 2003
- 60) Benito, C., Nunez, E., Tolon, R.M., Carrier, E.J., Rabano, A., Hillard, C.J. and Romero, J. Cannabinoid CB2 receptors and fatty acid amide hydrolase are selectively overexpressed in neuritic plaque-associated glia in Alzheimer's disease brains. *J. Neurosci.* 23:11136-11141, 2003.
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- 64) Kalivendi, S.V., Cunningham, S., Kotamraju, S., Joseph, J., Hillard, C.J. and Kalyanaraman, B.: Alpha-synuclein up-regulation and aggregation during MPP⁺-induced apoptosis in neuroblastoma cells: intermediacy of transferring iron and hydrogen peroxide. *J. Biol. Chem.* 279: 15240-15247, 2004.
- 65) Shang, T., Kotamraju, S., Kalivendi, S.V., Hillard, C.J. and Kalyanaraman, B.: 1-Methyl-4-phenylpyridinium-induced Apoptosis in Cerebellar Granular Neurons is Mediated by Transferrin Receptor Iron-dependent Depletion of Tetrahydrobiopterin and Neuronal Nitric Oxide Synthase-derived Superoxide. *J. Biol. Chem.* 279:19099-19122, 2004.

*Indicates corresponding author (when neither first or last author had this role)

BOOK CHAPTERS

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602, 1984.

- 2) Bloom, A.S. and Hillard, C.J.: Cannabinoids, neurotransmitter receptors and brain membranes. IN: Marihuana '84: Proceedings of the Oxford Symposium on Cannabis, Ed. D.J. Harvey, IRL Press, Oxford, 217-231, 1985.
- 3) Hillard, C.J.: Effects of nicotine and nicotinic agonists on calcium influx into brain synaptosomes. NIDA Monograph Series 81: 324, 1988.
- 4) Hillard, C.J.: Neurochemistry of nicotine. In: Drugs of Abuse and Neurobiology, R.R. Watson, Ph.D., Editor. CRC Press, Boca Raton. Pages 85-114. 1992.



JIM DOYLE
GOVERNOR
STATE OF WISCONSIN

July 8, 2004

To the Honorable, the Senate:

I am pleased to nominate and with the advice and consent of the Senate, do appoint Dr. Cecilia Hillard to be a pharmacologist of the Controlled Substances Board to serve a term expiring July 1, 2007.

Dr. Hillard will be available to the Senate for hearings and my staff will assist in any way they can.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Jim Doyle'.

Jim Doyle
Governor

JED:AW



JIM DOYLE
GOVERNOR
STATE OF WISCONSIN

July 8, 2004

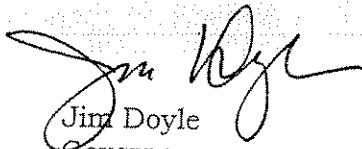
Dr. Cecilia Hillard
1623 E. Lake Bluff Blvd.
Milwaukee, WI 53211

Dear Dr. Hillard:

I am pleased to appoint you to the Controlled Substances Board, effective July 8, 2004. Your experience, knowledge, and dedication will be a true asset to my administration and a great benefit to the people of Wisconsin.

I look forward to working with you to find creative ways of delivering services and implementing positive change for the citizens of our state.

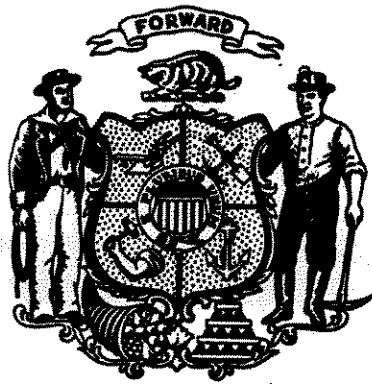
Sincerely,



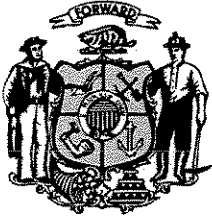
Jim Doyle
Governor

JED:AW

END



END



SCOTT McCALLUM

**Governor
State of Wisconsin**

GOVERNOR'S APPOINTMENT

NAME/MAILING ADDRESS: Mack E. Hughes
2466 N. Oakland Avenue, #326
Milwaukee, WI 53211

E-MAIL ADDRESS: none

RESIDES IN: Milwaukee

TELEPHONE: 414/332-1074 (H)

OCCUPATION: Retired

APPOINTED TO: Board of Veterans Affairs
(veteran)

TERM: a six year term to expire May 1, 2007

SUCCEEDS: Ted G. DeMicchi
P.O. Box 123
Somers, WI 53171

SENATE CONFIRMATION: required

DATE OF APPOINTMENT: October 18, 2001

DATE OF NOMINATION: October 18, 2001

COMPENSATION: reimbursement of expenses

MACK E. HUGHES
2466 North Oakland Avenue, Apt 326
Milwaukee, Wisconsin 53211
(414)332-1074 (Home)

OBJECTIVE: To obtain a position in an environment which will allow me to utilize my education and training to create a vehicle to fully develop and challenge the potential of each individual that I manage.

HIGHLIGHT OF QUALIFACATIONS

CLASSROOM PRESENTATION

- I approach classroom teaching as a facilitator of student learning by:
- Establishing a clean goal or objectives for each lesson;
- Noticing students reactions to materials presented and checking for understanding;
- Emphasizing development of students critical thinking skills
- Creating a balance between the goals of the school board and students learning needs.

MANAGEMENT

- Established training programs
- Developed lesson plans;
- Coordinated training programs in human relations for geographically dispersed reserve units;
- Forecasted and managed budgets.

ORAL AND WRITTEN COMMUNICION

- Made presentations to officials to get approval for funding of operations.
- Authored speeches, affirmative actions plans, policy statements, regulations and newsletters.
- Researched and analyzed data and authored documents germane to the City of Milwaukee's desegregation plan.

WORK HISTORY

2000- Present	Retired (15 years as a Principal)
1990- 2000	Principal, Brown Street Academy Milwaukee, Wisconsin
1984- 1990	Principal, Neeskara Elementary School Milwaukee, Wisconsin
1983- 1984	Assistant Principal, Robert Fulton Middle School Milwaukee, Wisconsin
1980- 1983	Desegregation Planning specialist Milwaukee, Wisconsin
1971- 1983	Teacher Milwaukee, Wisconsin

EDUCATION AND TRAINING

University of Wisconsin - Milwaukee, M.S. Administration and Supervisory Leadership	1980
Tennessee State University- B.S. Elementary Education	1971
Northwest Missouri State University- A.A. Sales Management	1977
Defense Equal Opportunity Management Institute	1977
Institute of Personnel Management and Resource Administration	1982
Advance Personnel Management Command and General Staff College	1987
Wisconsin Administrator's Assessment Center	1980

LICENSES AND CERTIFICATES

Life Wisconsin's Teacher's License - Grades 1 - 8
Wisconsin's Administrator's License Elementary and Middle School
Certified Facilitator

AFFILIATIONS

University of Wisconsin-Milwaukee Alumni Associations
The Administrators and Supervisors Council
Milwaukee Elementary School Principals Association
Milwaukee Metropolitan Alliance of Black School Educators
Reserve Officers Association-Lifetime Member
Church of the Living God-Trustee

MILITARY RECORD

Vietnam Veteran
Lieutenant Colonel-U.S. Army Reserve

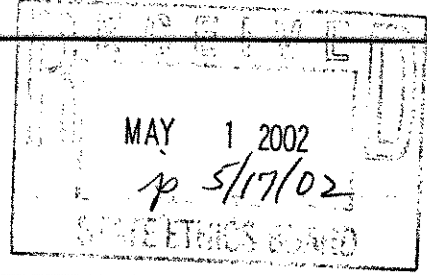
REFERENCES

Available upon request

Statement of Economic Interests

Filed in 2002 for calendar year 2001

Name: **Hughes, Mack E.**
 State position: **Dept. of Veterans Affairs Board Member**
 (held or sought) **Board of Veterans Affairs**



SEE INSTRUCTIONS FOR EXPLANATION AND EXCEPTIONS.

•Questions about completing this form? Call (608) 266-8115 •Other inquiries (608) 266-8123 •Attach additional pages as needed

Part A

As of December 31, 2001

1. List STOCKS, BONDS, limited partnerships, Wisconsin governmental securities, and mutual and money market funds you or your family held (minimum \$5,000).

Name of security	Type of security - "*" one					Amount - "*" one	
	stock/ option/ futures	bond	limited partnership	Wisconsin governmental security	mutual or money mkt fund	\$50,000 or less	More than \$50,000
<i>NONE</i>							

2. List BUSINESSES and INCOME-PRODUCING REAL ESTATE in which you or your family had a 10% or greater ownership interest.

Name of business (if any) or business activity, or address of real estate	Municipality	State	If real estate, list County	Describe nature of business
<i>2878/77 N. HOTA ST</i>	<i>MILWAUKEE</i>	<i>WI</i>	<i>MILWAUKEE</i>	<i>INCOME PROPERTY</i>

a) For each general partnership or non-Wisconsin entity you listed in Item #2, list the GENERAL PARTNERS or the OFFICERS and DIRECTORS.

Business	Partners, or officers and directors	City	State
<i>NONE</i>			

b) For each enterprise you listed in Item #2 that is an unincorporated business, a subchapter S corporation, a service corporation (SC), a limited liability company (LLC), a partnership, or income-producing real estate, list BUSINESSES, ORGANIZATIONS, and any LOBBYISTS that were CUSTOMERS, CLIENTS, or TENANTS that paid the enterprise \$1,000 or more in calendar year 2001.

Businesses, organizations, lobbyists that were customers, clients, or tenants	City	State
<i>NONE</i>		

3. List the specific location of WISCONSIN REAL ESTATE in which you or your family had an interest (except your principal residence and real estate whose location you listed in item 2).

LOCATION OF PROPERTY			NATURE OF INTEREST (own, lease, option, easement, land contract)
Street address or fire number	Municipality	County	
<i>2878/77 N. HOTA ST.</i>	<i>MILWAUKEE</i>	<i>WI.</i>	<i>CO-OWN</i>

T

4. List ORGANIZATIONS of which you or a family member was an OFFICER or DIRECTOR.

Business or organization	City	State	Position
NONE			

5. List ORGANIZATIONS THAT AUTHORIZED YOU OR A FAMILY MEMBER TO REPRESENT THEM in their dealings with others as an attorney-at-law, agent, spokesperson, or representative (unless listed in item 4 or 7).

Business or organization	City	State
NONE		

6. List CREDITORS to which you or your family owed \$5,000 or more.

Creditor	City	State	"✓" one	
			\$50,000 or less	More than \$50,000
FLEET MORTGAGE INC.	MILWAUKEE	WI.	✓	
MILWAUKEE MUNICIPAL CRE UNION	MILWAUKEE	WI.	✓	

Part B

For calendar year 2001

7. List your and your family's EMPLOYERS (\$1,000 or more of income) in 2001.

Name of employer (If State of Wisconsin, identify agency or institution)	City	State	Nature of employer's business
MILWAUKEE PUBLIC SCHOOLS	MILW.	WI.	PUBLIC SCHOOL SYSTEM
WISCONSIN RETIREMENT SYSTEM	MILW.	WI.	RETIREMENT SYSTEM WIS.
US ARMY RESERVES	MILW.	WI.	ARMY RESERVES

8. List OTHER SOURCES from which you or your family received INCOME of \$1,000 or more in 2001.

Source of income	City	State
NONE		

9. List individuals and organizations that provided you with ENTERTAINMENT or GIFTS (more than \$50) in 2001.

Name of provider	City	State
NONE		

10. List, for 2001, sources of HONORARIA and payment of EXPENSES related to your state government duties (more than \$50) not previously reported to the Ethics Board.

Payer	Approximate value of expenses	Amount of honorarium	Circumstances of receipt
NONE			

I have read the accompanying instructions and certify that the information contained in this Statement of Economic Interests is true, complete, and correct to the best of my knowledge, information, and belief. If any part has been left blank, I have done so intentionally because there is nothing to report.

Daytime phone # 414-264-7578

APR 29, 2002
Date

CEALY@WI.RR.COM
E-mail address

Signature of person filing

The information sought in this form is required by §§19.43 and 19.44, Wisconsin Statutes. Failure to file a completed form may result in a forfeiture of up to \$500. Statements of Economic Interests are open for public inspection. The Ethics Board will notify you of the identity of any person who examines your Statement. In accordance with §15.04(1)(m), Wisconsin Statutes, the Ethics Board states that no personally identifiable information is likely to be used for purposes other than those for which it is collected.



John T. O'Brien,
Legislative Officer/Judge Advocate
Wisconsin Department Military Order of the Purple Heart
26570 Fiddlers Green Road
Richland Center, WI 53581
(608) 647-8491
John.O'Brien@legis.state.wi.us

January 22, 2003

Honorable Senator Ronald Brown, Chairman
Senate Committee on Homeland Security, Veterans & Military Affairs
& Government Reform

Dear Chairman Brown & Members,

The State Department of the Military Order of the Purple Heart on behalf of all our members, Combat Wounded Veterans who have been awarded the Purple Heart respectfully requests this committee give it's unanimous support to the appointment of Mr. Mack Hughes to serve on the Board of Veterans Affairs.

Mr. Hughes served has served our country with distinction. He is a Veteran of the Vietnam War and has served in the United States Army Reserve with the rank of Lieutenant Colonel.

Our organization encourages you to vote in favor of Lieutenant Colonel Hughes appointment. It is important to our organization that these positions, be filled by experienced veterans who can relate to the issue that are important to those who served of our country in time of need. We have no doubt that Veteran's like Mr. Hughes will provide that type of representation.

Thank you in advance for your consideration.

John O'Brien
Legislative Officer/Judge Advocate
WI Dept. Military Order of the Purple Heart