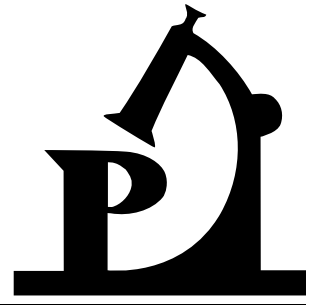


DAPS

DALLAS AREA PARKINSONISM SOCIETY



6370 LBJ FREEWAY • SUITE 176 • DALLAS, TX 75240 • 972-620-7600

MAY 2010

april general meeting

dr. matthew goldberg

shares research forecast at DAPS march meeting

by Cindy Weatherall, DAPS Board Member

Matthew Goldberg, PhD, Assistant Professor of Neurology and Psychiatry at UT Southwestern Medical Center, was the featured speaker at the March DAPS general meeting. We are grateful for his presentation about the forecast in PD research, both globally and locally. Dr. Goldberg does not treat patients. He focuses his research efforts on identifying and repairing the damage in cells that lead to Parkinsonism, with the goal of gaining knowledge that can be developed into diagnosis and treatment methods for patients. He has been at UTSW for four years, and has a strong commitment to collaborating with other researchers and sharing new information with other scientists as well as the public. (For a more detailed biography of Dr. Goldberg, you may refer to the March 2010 DAPS newsletter, page 3.)



Dr. Matthew Goldberg

The Global Research Forecast

The biggest breakthrough in PD research is in the field of **genetics**. Since 1997, with the discovery of mutations in the alpha-synuclein gene (genetically linked to familial Parkinson's Type 1, abbreviated as PARK1), scientists have been identifying the genes, and the proteins that are formed under the "direction" of these genes, that contribute to the development of PD. Identifying families with inherited forms of PD allows the opportunity to study the abnormalities, to develop animal models for research, and to propose treatments. Dr. Goldberg and his colleagues at Harvard were among the first to develop mice with mutations in the parkin gene (genetically linked to PD Type 2, or PARK2) in 2003.

Scientists are searching for **regenerative therapies** to repair damage to neurons. Stem cells still offer promise, and studies are underway in laboratories and medical centers in several countries, including the US.

Clinical trials offer a way for people with PD to participate in finding treatments for the disease. While there are currently about 60 clinical trials underway in the US, Dr. Goldberg

(continued on page 3)

may 2010
general
membership
meeting

speaker
Christopher Ging
Board Certified
Acupuncturist

Monday,
May 10, 2010
12:30 p.m.

University Park
United Methodist
Church
4024 Caruth
at Preston

Bring your
questions and
join us for
refreshments after
the presentation.

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**Dallas Area
Parkinsonism Society**

Dedicated to impacting and improving the quality of life for Parkinson's patients and their families

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NEWSLETTER

Ann Staton, Editor

The DAPS newsletter is published monthly as an information guide only, and does not serve as legal or medical advice. We welcome your feedback, contributions or requests. Please send to or contact:

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member profile
george kilpatrick

George Kilpatrick is a director of DAPS and is active on the newly revitalized finance committee. For looking after the Society's money, George has two big qualifications. He spent his entire career as a banker. Perhaps more importantly, he has a long record of being steady and dependable. As you read this piece, you'll see he was not one to jump around from job to job or place to place. He's even had the same wife for fifty years!! How's that for reliable?

George grew up in Denver and earned a degree from the University of Colorado in Boulder. That's where he met Dotty. She was a Dallas girl, so they graduated, married and moved to Texas without much delay. They raised two children, Jeff and Robin. Now they have six grandchildren. Jeff has three girls and a boy; Robin has two boys. It's nice for Dotty and George that they all live nearby.

The Kilpatricks still have love for Colorado. They really enjoy having the family at their place in Breckenridge.

George inherited a tradition in banking. His mother was the very first woman officer of the First National Bank of Denver. When George was young his father died and his mother became the bread winner.

It might be misleading to say how many banks George has worked for. I count five but I may have missed one or two. The list includes First National



Bank, First Republic Bank, NCNB, NationsBank and Bank of America. He started with the old 1st National Bank. After the banks gobbled up each other and changed names, he retired from Bank of America, without ever leaving his job.

George was diagnosed with Parkinson's in October 2007. He participates in DAPS exercise and speech on Tuesdays and Thursdays at Preston Hollow UMC.

If we had more space, we should write about George's wife Dotty. She's a very energetic and active person. As a thirteen-year survivor of breast cancer, she is working hard to help other cancer patients. She was a primary force in establishing a cancer support group at Highland Park United Methodist Church. She volunteers with a surgeon, counseling his patients about the many physical and emotional aspects of the disease.

april general meeting *(continued from page 1)*

is optimistic that the number will increase as information gained in lab studies is developed into projects that require human subjects. Dr. Goldberg mentioned the website **PDTrials.org** as a good resource for learning about trials which are specifically for PD patients.

The Local Research Forecast

Dr. Goldberg's discussion focused on exciting developments right here in Dallas. Along with faculty colleagues and several graduate students, he is conducting experiments in the earliest "test tube" stages, others in the animal model stages, and even one using cells from human blood samples. Most of the work centers on the PD-related genes **parkin**, **LRRK2**, **DJ-1**, and on some antioxidants (antioxidants can protect many types of cells from a variety of "injuries").

- **LRRK2 gene mutations** are the most common cause of familial PD (genetically linked to PARK8), but are still not frequently seen clinically. PARK8 is a late-onset PD type, which appears in patients in their 60s, 70s, and 80s. Dr. Goldberg's lab published research related to the LRRK2 gene in June 2009. In a complex series of experiments using yeast cells, mouse cells, and some human cells, it was shown that a naturally-occurring protein called CHIP can mitigate, or lessen, the effects of one type of LRRK2 mutation, known as the G2019S mutation. The research group is currently looking at a unique F-18 type protein that, in cell culture studies, prevents neurodegeneration caused by LRRK2 mutations.

Dr. Goldberg noted that the G2019S mutation was recently spotlighted when Sergey Brin, the co-founder of the Internet search engine Google, announced that he had learned he has that mutation, and is at a greater risk of developing late-onset PD. Brin now helps fund PD research and genetic testing (his wife, Anne Wojcicki, co-founded a genetic testing firm called 23andMe, which performed Brin's analysis).

- **Parkin gene mutations** are associated with an early-onset PD, PARK2. The proteins most

affected by these mutations normally help preserve the function of **mitochondria**. Every cell has mitochondria: this is where energy for the cell is produced, and without energy to perform a cell's tasks, the cell will die. Since the late 1970s - early 1980s, when a chemical called MPTP was (accidentally) found to produce immediate Parkinson's disease, it has been known that MPTP poisons mitochondria and specifically kills neurons in the substantia nigra portion of the brain. Combining the knowledge of parkin protein function, and the importance of mitochondria in normal functioning of the brain, **Parkin-mutant mice** have been used in experiments designed to determine the answers to questions like: How many mitochondria are in the neurons? What is their turnover rate? Can we find ways to preserve mitochondrial function even if there is a mutation? Can mitochondria be regenerated?

Experiments in Dr. Goldberg's lab involving **Parkin-mutant mice** have shown that the mutation causes more than just problems with protein function. The neurons in the substantia nigra of the mice are also more vulnerable to damage caused by inflammation. This research was conducted in collaboration with the laboratory of Dr. Malú Tansey, also at UT Southwestern, and published in October 2008.

- As a result of gaining basic knowledge of cell function when the Parkin mutation is present, then applying creative thinking, Dr. Goldberg's lab is working on a **blood test for PD**. Since all cells have mitochondria, there may be mitochondrial defects in many types of cells, including blood cells, in people with the Parkin gene mutation. Indeed, mitochondrial function has been reported to be deficient in blood cells from both PD patients and people with Parkin gene mutations. Dr. Goldberg's lab is searching for the altered blood cell proteins that may account for these defects. After receiving institutional approval and informed consent to collect blood samples from people with PD and people without PD, the researchers have begun initial



Cindy Weatherall, DAPS Board Member

testing on the mitochondria in blood cells at each stage of PD. This early-stage project was very well received when presented at the Society for Neuroscience meeting in October 2009.

Why would a blood test be helpful? First, it would allow researchers to be certain that participants in clinical trials actually have PD, and not another neurological disease, because there is currently no diagnostic test for PD. Second, possible treatments could be evaluated with greater sensitivity based on changes in the blood of the patient rather than on changes in symptoms, which are difficult to quantify objectively. Once a good blood test is developed, physicians could use it to diagnose PD and to determine the stage of PD more precisely so that treatments that slow PD progression can be identified more easily.

Dr. Goldberg is optimistic that progress against Parkinson's will accelerate with collaboration between researchers in genetics, molecular biology, electronics, and clinical medicine. We are fortunate that UT Southwestern provides the type of collaborative atmosphere that attracts researchers of Dr. Goldberg's caliber. And, we in the PD community are grateful that Dr. Goldberg is willing to take time to share his progress with our members.

Author's Note: I sincerely thank Dr. Goldberg for reviewing this article prior to publication. CW

questions and answers

dr. matthew goldberg

by Cindy Weatherall, DAPS Board Member

Q Has the “freezing” of PD been induced in mice?

A Mice do not mirror all the symptoms of PD that people experience. For instance, when the known toxic chemical MPTP, which causes instantaneous PD, is administered to mice, 90% of the neurons in the substantia nigra can be killed, yet the mice still do not show symptoms. Rats are a little more sensitive to the destruction of their dopamine neurons. No single animal model shows all the PD effects that are seen in humans, although the animal models are valuable in studying a variety of receptors, proteins, and mutations, and behaviors.

Q What does research on the effects of creatine, anti-inflammatory drugs, and foods on Parkinson’s Disease show?

A These are subjects outside my area of expertise. However, our work on developing a blood test to quantify the progress of PD would help in determining which treatments are effective.

Disclaimer: This information is provided for informational purposes only and is not intended as medical advice or as a treatment guide for patients. Please check with your personal physician for any specific questions regarding your medical care.

Q Are abnormalities in sucrose/glucose absorption in the brain related to PD?

A Properly functioning mitochondria are probably more important than sugars in PD. Most glucose defects will show up as metabolic problems in childhood.

Q I’ve had PD for 21 years and have participated in numerous clinical trials, but it seems the drugs don’t make it to the market. How are drugs finally made available to the public?

A Clinical trials do help weed out what will and won’t work, and what is safe or not. Many promising ideas do not work. Lab research and clinical trials are like a two-way street. Discovering what doesn’t work clinically helps direct research, and, good laboratory science helps clinicians make good informed decisions about treating patients. Despite the hurdles in making medications available, it is very important to have volunteers for clinical trials.

supplementary methods

Christopher Ging, board-certified therapist and acupuncturist will demonstrate supplementary methods for alleviating problems of mobility, stiffness, balance, and pain. He will emphasize types of massage, rhythmic exercise, and acupuncture. Come and watch while someone else gets stuck with needles!

michael j. fox named honorary doctor in sweden

Sweden’s Karolinska Institute says it will give an honorary degree of medicine to Canadian-American actor Michael J. Fox for his work to raise funds and awareness for Parkinson’s disease.

The institute, which awards the annual Nobel Prize in medicine, says the Michael J. Fox Foundation for Parkinson’s Research has since 2000 given more than \$175 million to research aimed at developing drugs against the disease.

Fox was diagnosed with Parkinson’s in 1991. The disease is a progressive neurological condition that impairs the motor skills.

Karolinska says Fox will receive the doctorate in a ceremony in New York.

tour of holland

There has been a good response to the “Tour of Holland” Fundraiser and it is not too late to contribute! Help DAPS meet its goal for this 2010 Fundraiser!

those who are there, those who care give me patience - but i need it right now!

by Susan Hamburger, APDA National Young Onset Center, Young Parkinson's Newsletter



Patience has always been a problem for me. However, when my husband was first diagnosed with Parkinson's (when he was 45 and I was 41), I didn't feel that my built-in lack of patience really created a problem for us. As the disease progressed though, I started having to really think about my reactions to difficult situations.

As caregivers we encounter many situations that requires us to exercise more patience than we think we have. It might be as simple as waiting for our partners to finish a sentence or as complicated as dealing with their stubbornness or refusal to do what we know is good for them. So, how have I found patience when I really needed it?

For me, the most effective ways to improve my patience level have been to simplify life as much as I (or we) could tolerate, remain very flexible in terms of my expectations, and make sure I had time for myself. It sounds simple, but it is probably a daily struggle for most of us.

I can tell you honestly that sometimes I was very

successful, and other times I was just overwhelmed and unable to react in a rational, patient manner. What made the difference? I have spent a lot of time thinking about that and have concluded that my patience level is inversely correlated (I am a retired statistician) with the stress and complexity of my own life. If I had too much on my plate, I had more trouble being patient with my husband, even though I knew he did not purposely do things to annoy me or become more dependent on me. When I was working, I could not do everything necessary to manage the household and exercise the patience I needed with his progressing illness. Making changes in my schedule helped. I reduced my working days, found time to be with my husband more often, and also made time for the things I wanted and needed to do (PD support group, condominium board, etc.).

Ultimately, I realized that I was the one who needed to control my reactions because I could not control my husband or the disease. Sometimes that meant walking away and not reacting, while other times it meant actively thinking about how to react. For me, the impulsive negative reactions are greatly diminished when I can reduce the inner stress I feel. I think we all just have to keep doing the best we can do, and never expect perfection from ourselves or our partners!

Learning patience has been an ongoing process for me – and I am still learning, believe

me! I envy people who seem to have a healthy supply of built-in patience. I wish it could be bottled or put into a pill for those of us who are in short supply. Whether we have a lot of patience or not, we all get pushed to our limits sometimes. So, it is important for us to identify that point beyond which we can "lose it," be cognizant of it, and make efforts to keep ourselves from exceeding it.

Susan Hamburger has a Bachelor's Degree In Elementary Education, and two Master's Degrees (Educational Psychology and Biostatistics/Epidemiology). She has been a kindergarten teacher, a school psychologist, and a biostatistician at the National Institute of Mental Health. Susan has written extensively about caregiving and has served on the Board of several local Parkinson's organizations. She has also spent many hours on Capitol Hill, lobbying our Senators and Representatives to increase the funding for PD research.

member comment

Dear Ann,

My application for membership and check is enclosed.

I attended the exercise session at Custer Road Methodist in Plano yesterday. It is a good group and I'm sure I will learn a lot. *Plus, they work hard!*

Thanks,
Anita Schoenberger

parkinson's patient can't walk but can bike

doctors discovers that many with disease can still pedal with ease

Dr. Bastiaan Bloem thought he had seen it all in his years of caring for patients with Parkinson's disease. But the 58-year-old man who came to see him recently was a total surprise.

The man had had Parkinson's disease for 10 years, and it had progressed until he was severely affected. Parkinson's, a neurological disorder in which some of the brain cells that control movement die, had made him unable to walk.

But the man told Bloem something amazing: He said he was a regular exerciser – a cyclist, in fact – something that should not be possible for patients at his stage of the disease, Bloem thought.

The man was eager to demonstrate, so Bloem, of the Radboud University Nijmegen Medical Center in the Netherlands, took him outside where a nurse's bike was parked.

"We helped him mount the bike, gave him a little push, and he was gone," Bloem said. He was in perfect control, all his Parkinson's symptoms gone.

Yet the moment the man got off the bike, his symptoms returned. He froze immediately, unable to take a step.

Bloem made a video and photos of the man trying to walk and then riding his bike. The photos appear in Thursday's issue of *The New England Journal of Medicine*.

After seeing that man, Bloem asked 20 other severely affected patients about riding a bike, it turned out that all could do it, though it is not clear why.

People with Parkinson's disease can often dance, run, walk smoothly and do complex movements for a few minutes if they are given appropriate signals – emotional or visual cues. But this effect, known as the kinesia paradox, does not last

long. Riding for miles and miles is very different from walking for a few minutes. And until now, Bloem said, it was not known that patients with Parkinson's could ride bikes.

Bloem said one explanation for the finding might be that bicycling uses a different part of the brain than walking and might not be so severely affected by Parkinson's disease.

Bloem said he hoped that regular exercise might slow the progress of Parkinson's disease. It does in rats, he said, and he is running a clinical trial in 600 patients to see if exercise slows the disease in humans.

*Gina Kolata,
The New York Times*

*Reprinted from
The Dallas
Morning News,
April 2, 2010*



memorials, honors, donations

January 1 thru January 31, 2010

In memory of Loy Baird
From: Barb Mack

In memory of Aaron Cohen
From: Margie & Sylvan Landau

In memory of Louise Kyle
From: Sara E. Sanderson

In memory of Marianne Lichtenstein
From: CNC Home Care

Eric & Stephanie Harmon
Felise & Harold Leidner
Lillian Ordiway
Cindy Rubin
Linda Smith

In memory of Bill Petrie
From: Newton & Ruth Beam

In memory of George William Scoggins
From: Leona Odum

In memory of Charlie B.b Shuffield
From: Barbara & Erroll Wendland

In memory of Fred A. Smith, Jr.
From: Janis Delmonte
Bob & Ann Staton

In memory of Arlis Wells
From: Sharon & Stephen Blend

"Tour of Holland" Donations

From: Jackie Adams

Daila L. Allen
In honor of Sam Allen

Ian Anderson

Sarah Atwood
In honor of Winnie Swinburne

Betty Baird
In memory of Loy Baird

Newton & Ruth Beam
In memory of Newt Mohn

Tom & Virginia Benke
In honor of Lionel Blomquist

Marcie Black
In memory of Rebecca Kendall

Sharon Blend
In memory of Madelyn Wolfe

Anthony & Gina Borgognoni
In memory of Gary Atwood

Guy & Jackie Brown
In honor of My Family

Philip & Sherry Burke

Jacqueline CarverAnnabelle Catterall
In honor of the DAPS Board

Chris Claussen

Bobbie Copeland
In memory of Glenn Copeland

Mary Margaret Davis
In memory of George F. Davis

Barrillon Dougherty
In memory of Clarice & Brook
Dougherty

Mr. & Mrs. R. J. Francis

Dwight C. German

Charles P. Gross

Laura H. Gruy

Dr. William & Henaine Hamelman

Elsie Hayes
In memory of Dr. Robert Hayes

Wallace Hecht

Joe & Jackie Hickman

In honor of Bindu Chacko

Vonciel Hickman
In memory of Lester E. Hickman

George & Margaret Hoobler
In honor of George W. Hoobler, II
& Jackie Brown

Marsha Kreitman
In memory of Jacob Kreitman

The Lacerte Family

Diane Lorms
In memory of John (Jack) Lorms

Ann Lowe
In honor of Sarah Atwood

Mr. & Mrs. J. C. McClure

Pauline McFarlane
In memory of Dr. David Black

Ann B. Martin

Ann M. Miller
In honor of Bob Larson

June V. Mohn
In memory of Newton Mohn

Maxine R. Musgrave
In memory of Albert W. Musgrave

Dianne & Nick Nadolsky
In memory of Mrs. Cathafay Wilson

(continued on page 7)

NO CHARGE
speech therapy and group exercise

CARROLLTON

**ST. ANDREWS
CHRISTIAN CHURCH**
 3945 N. Josey Lane
Group Exercise
 Wednesday 9:45 a.m. to 10:45 a.m.
Speech Therapy
 Wednesday 10:45 a.m. to 11:30 a.m.

DALLAS

**BAYLOR INSTITUTE
FOR REHABILITATION**
 909 North Washington Street
Water Therapy
 Wednesday 11:00 a.m. to 12:00 p.m.

DALLAS YOGA CENTER
 4525 Lemmon Ave., 3rd Floor
Yoga for Parkinson's
 Friday 11:00 a.m. to 12:00 p.m.

LAKESIDE BAPTIST CHURCH
 9150 Garland Road
Group Exercise
 Wednesday 9:30 a.m. to 10:30 a.m.
Speech Therapy
 Wednesday 10:30 a.m. to 11:15 a.m.
Partners in Care Group
 2nd Wed. 10:30 a.m. to 11:30 a.m.
 each month

**PRESTON HOLLOW UNITED
METHODIST CHURCH**
 6315 Walnut Hill Lane
Speech Therapy
 Tuesday 11:30 a.m. to 12:15 p.m.
Group Exercise
 Tuesday 10:30 a.m. to 11:30 a.m.
 Thursday 10:30 a.m. to 11:30 a.m.
Partners in Care Group
 Tuesday 10:30 a.m. to 11:30 a.m.

SKILLMAN CHURCH OF CHRIST
 3120 Skillman St., FLC Building
Group Exercise
 Monday 9:15 a.m. to 10:15 a.m.

**ST. LUKE'S COMMUNITY
UNITED METHODIST CHURCH**
 5710 East R.L. Thornton Freeway
Group Exercise
 Monday 10:00 a.m. to 11:00 a.m.

DUNCANVILLE

**TRINITY UNITED
METHODIST CHURCH**
 1302 S. Clark Road
Group Exercise
 Monday 6:30 p.m. to 7:30 p.m.

GARLAND

**SOUTH GARLAND
BAPTIST CHURCH**
 1330 E. Centerville Road
Speech Therapy
 Thursday 9:30 a.m. to 10:15 a.m.
Group Exercise
 Monday 10:30 a.m. to 11:30 a.m.
 Thursday 10:30 a.m. to 11:30 a.m.
Partners-in-Care Group
 Thursday 10:30 a.m. to 11:30 a.m.
Discussion Group
 Monday 9:30 a.m. to 10:30 a.m.

IRVING

**FIRST UNITED
METHODIST CHURCH**
 211 W. Third Street
Group Exercise
 Tuesday 9:45 a.m. to 10:45 a.m.

PLANO

**CUSTER ROAD
METHODIST CHURCH**
 6601 Custer Road
Group Exercise
 Monday 9:45 a.m. to 10:45 a.m.
 Thursday 9:45 a.m. to 10:45 a.m.
Speech Therapy
 Thursday 11:00 a.m. to 11:45 a.m.
Partners-in-Care Group
 Monday 9:45 a.m. to 10:45 a.m.

RICHARDSON

**ARAPAHO UNITED
METHODIST CHURCH**
 1400 W. Arapaho at Coit
Group Exercise
 Monday 10:00 a.m. to 11:00 a.m.
 Wednesday 10:00 a.m. to 11:00 a.m.
 Friday 10:00 a.m. to 11:00 a.m.
Partners-in-Care Group
 1st Wed. 10:00 a.m. to 11:00 a.m.
 each month

Call DAPS at (972) 620-7600 for more information.

**memorials,
honors, donations**
(continued from page 6)

Mrs. Don R. Nafus
 In memory of Don R. Nafus

Mr. & Mrs. Michael Nemazie
 Charlene Noe, Richard & Pat Noe Family,
 Shon & Rhonda Webb Family

Dolores Olbeter
 In memory of Jerry Olbeter

Phyllis Page
 Jerry Pinnell
 In honor of Lionel Blomquist

Marian Pollock
 Mella Ponce
 Glenda Reynolds
 In memory of Clay Reynolds

Deedie Rose
 Lenora G. Rubin
 In honor of Herman Schwartz

RTS Real Estate Services
 Mark F. Schweinfurth
 In honor of Kay Schweinfurth

Gerald & Bonnie Seitchik
 Margie Semke
 In memory of Charles Semke

Frances H. Sessions & Family
 In memory of J. Marshall Sessions

Donald & Deborah Shannon
 Mr. & Mrs. Don Sillers
 Bob & Ann Staton
 In Honor of Jean Blomquist

Barbara L. Stewart
 Joyce Susman
 In memory of Beril Susman

Richard Tonnesen
 Glen & Jan Trulock
 Susan Walker
 In honor of John Walker

Paul & Cynthia Weatherall
 Ross & Evelyn Wheeler
 C. David Wick & Family
 In memory of David Keith Wick

Mrs. Norman Winton
 In honor of Thomas S. & William Scott Winton

Donations to DAPS
 From: Arapaho PAGE
 Custer Road PAGE
 General Meeting in March
 Irving PAGE
 Skillman PAGE

In honor of Sylan Landau's 85th Birthday
 From: Joan & Milton Chernoo

In honor of Louise Gartner's 90th Birthday
 From: Margie & Sylan Landau

In honor of Doris & Joe Metz's 90th Birthdays
 From: Margie & Sylan Landau

In honor of Jennifer Witt
 From: Dave Wick

Speedy Recovery to Mr. Donald Golman
 From: Ms. Fonda Glazer

Your donations are tax deductible.

may 2010

calendar of events

www.daps.us

general meeting

Monday, May 10 - 1:00 p.m.

Speaker: Christopher Ging

Board Certified Acupuncturist

University Park United Methodist Church

open board meeting

Monday, May 17 - 1:00 p.m.

University Park United Methodist Church

next month

Monday, June 7 - 1:00 p.m.

Speaker: Dr. Sharon Rabb,

Clinical Nutritionist

University Park United Methodist Church

partners-in-care groups

Led by Charlotte Webberman, ACSW, LMSW

Every MONDAY: 9:45 a.m. - 10:45 a.m.

Custer Road Methodist Church

6601 Custer Road, Plano, Texas 75023

Every TUESDAY: 10:30 a.m. - 11:30 a.m.

Preston Hollow United Methodist Church

6315 Walnut Hill Lane

Every 2nd WEDNESDAY of each month:

10:30 a.m. - 11:30 a.m.

Lakeside Baptist Church, 9150 Garland Road

Every 1st WEDNESDAY of each month:

10:00 a.m. - 11:00 a.m.

Arapaho United Methodist Church

1400 West Arapaho at Coit

Every THURSDAY: 10:30 a.m. - 11:30 a.m.

South Garland Baptist Church, 1330 East Centerville Road

disclaimer: The contents or opinions expressed in this Newsletter are those of the individual writers or presenters and do not constitute an endorsement or approval by DAPS staff. Please consult your personal physician regarding your individual medical problems.

**For change of address or corrections, please indicate the changes on this page
and send or fax it to DAPS or email: daps125@sbcglobal.net**



Dallas Area Parkinsonism Society

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Dallas, Texas 75240

(972) 620-7600

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