

IMPACTS



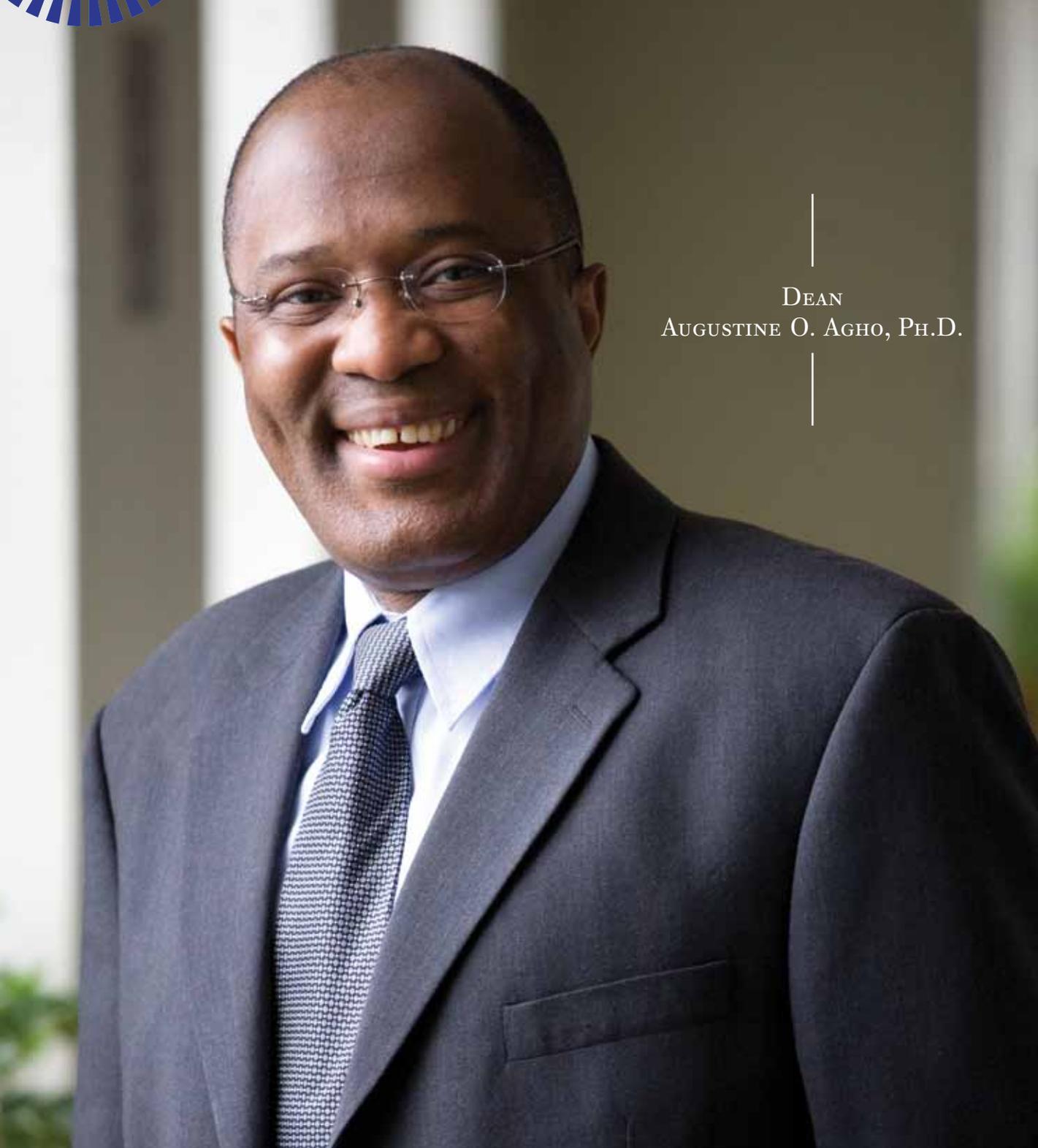
THE MAGAZINE OF THE SCHOOL OF
HEALTH AND REHABILITATION SCIENCES

Volume 1, Issue 1

Summer 2009

www.shrs.iupui.edu

IMPACTS



DEAN
AUGUSTINE O. AGHO, PH.D.

IMPACTS



Contents

THE MAGAZINE OF THE SCHOOL OF HEALTH AND REHABILITATION SCIENCES
Health Sciences • Nutrition and Dietetics • Occupational Therapy • Physical Therapy

Alumni and Friends	page 4
Students	page 6
Faculty Highlights	page 8
Clinical Update	page 10
Research	page 12
International Spotlight	page 14

On the Cover

Dean Augustine O. Agho, April 2009. Photograph by Tyagan Miller.

Impacts, the magazine of the School of Health and Rehabilitation Sciences, is published annually for alumni, friends, faculty, staff, and students.

Dean

Augustine O. Agho, Ph.D.

Impacts Editors

Brenda Smither Lawless, Jennifer Yarbrough

Contributors

Augustine O. Agho, Ph.D.; Peter Altenburger, Ph.D., PT; Amy J. Bayliss, D.P.T., PT; Abbie Dwenger, OTS; Judith Ernst, D.M.Sc., RD; Janet Everly, Ed.D., OTR; Thomas Fisher, Ph.D., OTR, CCM, FAOTA; Jennifer Gardner, OTS; Celestine Hamant, M.S., OTR, FAOTA; Laura Horvath, OTS; Robyn Fuchs, Ph.D.; Chiung-ju Liu, Ph.D., OTR; Joyce Mac Kinnon, Ed.D., PT; Jacquelynn O’Palka, Ph.D., RD; Arlene Schmid, Ph.D., OTR; Patricia Scott, Ph.D., OT, FAOTA; Valerie Strunk, M.S., PT; Stuart J. Warden, Ph.D., PT, FACSM; Louise Watkins.

www.shrs.iupui.edu

Greetings from the dean

A PERSONAL MESSAGE FROM THE DEAN OF THE SCHOOL OF HEALTH AND REHABILITATION SCIENCES



Dear Friends,

First of all I want to say it has been gratifying for me to be the dean of the School of Health and Rehabilitation Sciences (SHRS) at a time of such opportunities for growth, expansion, and development for the school. It is hard

to believe that my one-year anniversary is nearly here. I have been swept away with the excitement of establishing new relationships and building rapport with faculty, staff, students, university administrators, community leaders, health care communities, and SHRS alumni board.

After arriving in July 2008, I began the process of working with faculty, staff, and students to develop a new strategic plan for the school. To build on our achievements, we must continue to align our goals and strategies with the priorities of the university and the needs of our key stakeholders. I am proud to report that the school adopted a five-year strategic plan in November 2008 with specific objectives and activities. Our primary goals are to support the growth and expansion of various academic offerings; continue developing faculty research endeavors and scholarly activities; attract internal and external funding for multidisciplinary and translational research; acquire additional space to accommodate growth and expansion; and strengthen the school's commitment to diversity. We are committed to implementing and monitoring the overall impact of this plan.

This first edition of *Impacts* is one of the outcomes of our recently adopted strategic plan. SHRS faculty and alumni are known regionally, nationally, and internationally for their contributions to their profession and community through patient care, translational and clinical research, teaching, and service. This publication will be used as a forum to provide our friends and benefactors with regular updates on the accomplishments of faculty, alumni, and students, increase the visibility of the school, and highlight the outcomes of our strategic plan and other important events. In this issue, we proudly present some of the noteworthy accomplishments of our faculty, students, and alumni.

I thank you for all you have done to help us to maintain our outstanding reputation for preparing highly qualified and culturally competent health and rehabilitation professionals. Critical to our continued growth and reputation is your involvement and generosity. Please visit us as often as your schedule permits. I look forward to meeting you and hearing your feedback on our strategic plan.

I hope you enjoy this first issue of *Impacts*. In addition to a hard copy mailing, issues will be available online at our website www.shrs.iupui.edu.

Best Regards,

A handwritten signature in black ink that reads "Augustine O. Agho". The signature is written in a cursive style with a large initial 'A'.

Augustine O. Agho, Ph.D.
Dean



Alumni and Friends

SHRS Donors 2008

The school extends a heartfelt thank you to the following donors for their generous support during the past year.

Evelyn J. Abel
 Mark Aghakhan
 Renee Akins
 Margaret K. Altom
 Thomas J. Andrews
 Janice L. Anthony
 Kathleen H. Armstrong
 Duane K. Arnold
 Suzanne E. Ashley-Wannemuehler
 Avaya Communications
 Edward H. Axman, Jr.
 Cynthia J. Badowski
 Amy Feldman Bailes
 Susan A. Bailey
 Jo E. Ballenger
 Patricia A. Barrett
 Marlana Z. Bauer
 Heidi A. Bauerle
 John R. Bazik
 Bart A. Beal
 Patricia A. Beaty
 Karen R. Beavin
 Janet E. Bellinger
 William J. Benner
 James W. Bentley
 Iris J. Bjelich
 Ronald K. Bloom, M.D.
 Eva M. Board
 Shirley M. Boardman
 Roseanne Bohanan
 Francis M. Bolen
 Therese A. Boric
 Mary Sue Brady, Med.Sc.D.
 Mary E. Brinson
 Lisa A. Bronson
 Patricia A. Brown
 Gina L. Bryson
 Mary A. Burns
 Rachelle Cannella
 Rachel L. Cantrell
 Karen L. Carichoff
 Mary E. Carlson
 Marion J. Carter
 Ciecia Carter
 Carter Revocable Living Trust
 Paige A. Castellow
 Jill L. Caudill
 Jacquelyn Chamberlin
 Cynthia A. Chapek
 Julie A. Childers
 Deborah A. Chinn
 Tracy A. Clark
 Marilyn M. Cloutier
 Judy L. Cloyd
 Donna J. Cochran
 Joyce A. Compton
 Teresa E. Conley-Buckner
 Gerry E. Conti
 Jane L. Conwell
 Kevin M. Corcoran
 Charles H. Coulston
 Claudia E. Cox
 Jeffrey Crabtree
 Michelle L. Crafton
 Laura J. Curry
 Dairy Management Inc
 Julie V. Davis
 Evan M. Davis
 Karen L. Davis
 Michael G. Davis, P.E.D.
 Vincent J. Davisson
 Dee A. DeCostard
 Sandra P. DeLong
 Douglas J. DeSmit
 Gretchen M. Dewes
 Susan G. Dilley
 Richard A. Dimmett
 Nancy E. Ditzler
 John F. Donahue
 Cynthia Dore
 Debra A. Dorsch
 Andrew M. Downs
 Anne Mejia Downs, P.T.
 Albert Doyle

Gayle K. Dudziak, Ed.D.
 Duke Energy Foundation
 Gail Durkin
 Mila M. Dye
 Nancy S. Eble
 Beth Clymer Edwards
 Ramona C. Eisinger
 Pamela J. Engel
 Judith A. Ernst, Med.Sc.D.
 June Ernst
 Richard M. Ernst
 Therese A. Eutsler
 Patricia R. Evans, Ph.D.
 Robert W. Eveslage
 Anna M. Fagg
 Lisa A. Fair
 Larry J. Fairchild
 Donna L. Faraci
 Justin R. Farris
 Barbara C. Felix
 Robert J. Fenneman, Jr.
 Karen A. Ferguson
 Cynthia R. Ferguson
 Elaine Ewing Fess
 Daniel C. Fick
 Fidelity Investments Charitable
 Gift Fund
 Deborah K. Figueiredo
 Sharon Miller Firestone
 Thomas F. Fisher
 Ralph E. Fisher
 Betty A. Floyd
 Michael E. Foley
 Dan P. Fox
 Marjorie F. Frampton
 Mary V. Frank
 Charmaine K. Frazier
 Janice L. Frech
 Kelly S. Frost
 Karen E. Gable, Ed.D.
 Suzanne G. Gallai
 Judith E. Galluzzo
 Len D. Garner
 Janet M. Gates
 GE Foundation
 Dawn K. Gentsch
 Jane M. Gerardot
 Brenda K. Gerbsch
 Alice M. Gold
 Edith M. Goodwin
 Jeffery T. Goshert
 Barbara J. Grace
 Arlene R. Grande
 Pamela S. Greco
 Dawn R. Green
 Frances G. Greenwell
 Paula J. Greenwood
 Janet S. Gregg
 Catherine L. Grennell
 Mary E. Greulich
 Molly S. Griffin
 Ruta V. Grinvalds
 Patricia A. Griswold
 Katharine Gross
 Zayda L. Gustafson
 Denise K. Hagan
 Jane L. Haldeman
 Linda S. Hall
 Tarla J. Hall
 Shannon R. Hallead Mills
 Candis J. Halsey
 Celestine Hamant
 Michael R. Hanks
 Jean L. Harbron
 Barbara K. Harding
 Kathy A. Harker
 Jeanne A. Harrison
 Angela Georges Hartman
 Annabel S. Hartman
 Victor M. Head
 Michele S. Heck
 Marcea Hefner
 Gerald K. Helt
 Sandra D. Hendrich

Rita A. Hendricks
 Connie K. Hendy
 Jean K. Hensey
 R. Lauren Hensley
 Jill A. Hentrup
 Donna L. Hermance
 Susan C. Herron
 Ann S. Hill
 Margaret M. Hoover
 Gregory J. Hormann
 Jay R. Howard, Ph.D.
 Brenda S. Howard
 Shirley A. Huls
 Ann M. Hummel
 William E. Hunt
 Illinois Tool Works Foundation
 Intel Foundation
 David B. James
 J. Robin Janson
 Brenda M. Jarrett
 Karen M. Johnson
 Shirley W. Jones-Walker
 Michael W. Judd
 George A. Karwisch, Jr., Ph.D.
 Gregory D. Kaucher
 Christine M. Kear
 Nancy J. Keeler
 Lisa A. Kellams
 ZoEtta G. Keller
 Carol S. Kelley
 Lynn N. Kenyon
 Gina B. Kiess
 Cynthia B. Kincaid
 Debra E. Klakamp
 Tyra L. Klink
 Janice E. Knot
 Scott J. Kohnen
 Virginia M. Kohrman
 Jennifer L. Koryta
 Sandra B. Koss
 Alison L. Kramer
 Paul W. Kruse, M.D.
 Cdr. Gregory T. Kuhn
 Malekah R. Lackey
 Ruth A. Ladue
 Susan A. Lake
 Nancy K. Lamport
 Donald O. Lamport
 Jeff Lantz
 Beth A. Larson
 Thomas R. Lawson, Ph.D.
 Bridget A. Lee
 Metra L. Lehmann
 Ronald W. LeMond
 Irene Kaczur Leus
 Stephanie L. Lewellen
 Mary A. Lewis
 LouAnne K. Lewis
 Mary T. Loghmani
 Nancy E. Lomax
 James R. Lovett
 Steven M. Low
 Lumina Foundation for Education
 Jack L. Lutes
 Janey D. Lyons
 Hon. Susan L. Macey
 Joyce L. MacKinnon, Ed.D.
 Joanne K. Maher
 Susan E. Mannell
 Patty J. Manon
 Lois K. Marek
 Melissa D. Martin
 Joanna Martin
 Ted R. Mast
 Judith A. Mathews
 Julie A. Matlock
 Jacqueline S. Mauser
 Ashleigh P. McAfee
 Anne L. McDonald
 Rex D. McGinnis
 Dianne B. McIntosh
 Sarah E. McKee
 Julia M. McNamara
 Diana M. Meadors

Rita L. Meanwell
 John P. Michaels
 Robert E. Miller
 Mary A. Miller
 Amy J. Miller
 Stacy L. Miller
 Joy A. Miller
 Susan A. Mishkin
 Ty A. Montgomery, M.D.
 Alice A. Moore
 Kimberly K. Moore
 Lisa A. Morris
 Mary J. Munchak
 Marsha I. Myers
 Kevin W. Nance
 Carol D. Nathan, Ed.D.
 Amanda W. Netter
 Marilee K. Newman
 Jean E. Niederhausen
 Karen L. Nordin
 Mary P. Norrell
 Linda L. Orr
 Kristina L. Osborn
 Chequita R. Owen-Carter
 Beth A. Parsley
 James H. Parsons
 Mitchell E. Parsons
 Amy M. Patrick
 Russell W. Pelliar, M.D.
 Carlton A. Perry
 Nancy K. Petrick
 Alisa M. Petruzzi
 Thomas A. Petry
 Pfizer Foundation
 Michelle L. Pickett
 Lisa V. Polen
 John D. Potter
 Teresa R. Price
 Betsy J. Pridemore
 Trudyanna Pursell
 William Putorti, Jr.
 Whitney L. Quiambao
 Kris B. Rairdon
 Raytheon Company
 Jennifer M. Reece
 Joan E. Reed
 Tina M. Reed
 D. Martin Reeser
 Colleen R. Renie
 Sharla D. Rhodes
 Michael Ricciardone
 Mollie A. Richards
 Claudia S. Richardson
 Johanna W. Ridenour
 Deborah J. Riga
 Laura L. Rinehart
 Bart A. Roberts
 Karen E. Robertson
 Rock Island Refining Foundation
 Elizabeth Rodenbeck
 Debra L. Roeschlein
 Holly J. Rogers
 M. Joanna Ross
 Staci M. Roth
 Holly L. Rudie
 Karen A. Said
 Pamela J. Sailor
 Joann S. Scheetz
 Janice J. Scheidt
 Betty L. Schenk
 Jim Schleusner
 Sherylyn H. Schmidt
 Lisa A. Schmitt
 Pama C. Schreeg
 Juanita M. Searfoss
 Kathleen A. Sharp
 Daniel R. Shea
 Christine A. Shepherd
 Steven L. Sherman
 Nancy E. Sholl
 Barbara L. Sholtis

Joy A. Siegel
 Marilyn J. Sisol
 Anita H. Slominski
 Gretchen T. Smith
 Deborah A. Smith
 Gina M. Smith
 Mary A. Smith
 Irene M. Snyder
 Sandra G. Soffer
 James J. Solon
 Beverly L. Spears
 Sharon M. Spitznaugle
 Jennifer L. Squire, D.P.T.
 Sheila D. Starbuck
 M. Greg Stathakis
 James P. Steffus
 Erica B. Stern, Ph.D.
 Lori F. Stewart
 Janet W. Stine
 Linda J. Stohler
 Susan D. Stoller
 Stoller Dental Clinic, Inc.
 Dennis G. Stoops
 Lowell E. Straw
 Bernice F. Stuart
 Steven K. Stucky
 Timothy K. Sullivan
 Barbara Summers
 Kenneth R. Swan
 Sygnus Corporation
 Janet Falkenstein Taylor
 Janice L. Thedens
 Nancy M. Thomas
 Lois L. Thorup
 William M. Tierney, M.D.
 Mary J. Tirpak
 Amy L. Titus
 Alice E. Tonkin
 Theresa L. Topham
 Marcia A. Tordi
 Martha J. Uhl
 Charles O. Ulrich, H.S.D.
 Susan K. Umbaugh
 Luba M. Underwood
 Rebecca L. Urquhart
 Sheryl L. Vail
 Donna R. Vandepol
 Joyce M. Vazquez, P.T.
 Lauren M. Vessels
 Tifinie M. Voiles
 Samuel J. Voland
 Pamela A. Vollmer
 Marti J. Waggoner
 Wallis G. Wake
 Pamela J. Wall
 William E. Walsh
 Lisa A. Walter
 Mark P. Waterman
 Emory L. Waters
 Esther F. Watkins
 Jane A. Watson
 Angela K. Webb
 Suzanne M. Wessel
 Roberta K. White
 Wayne B. White, M.D.
 Mary Ann Wieand
 Amy Wiley
 Marjorie B. Wilkerson
 Marsha K. Willan
 Roger A. Williams, P.T.
 Jeanette B. Wilson
 Elizabeth Wilson
 Patricia A. Witczak
 Geoffrey J. Wood
 Patricia M. Wooley
 Worksite Therapies &
 Consultation Services
 Jennifer L. Wright
 Nancy M. Yoshida
 Mario A. Young
 Karen A. Young
 Lisa R. Zike
 Bethany E. Zink
 Janice A. Zirkle

IMPACT IUPUI

Your impact. IUPUI's future.

The School of Health and Rehabilitation Sciences enjoyed remarkable participation in the 2009 Impact IUPUI Campaign. This annual campus-wide fundraising effort is directed toward IUPUI faculty and staff, who may contribute to any IU Foundation account of their choosing – many direct their gifts to their own school. Over the past several years, SHRS faculty and staff have made modest contributions to the annual campus campaigns. However this year alone, their efforts have brought in over \$4100 – a 493% increase from 2008! Congratulations to the SHRS faculty and staff for their dedication and support!



Sharon Lucas Barr received her B.S. in occupational therapy from IU in 1975, and after graduation worked for 10 years in home health care in Washington

D.C. She returned to Indiana and has worked at Witham Memorial Hospital in Lebanon since 1989. She currently serves as executive director of business development and director of the Physician's Specialty Center.

She has remained active in professional agencies such as the Indiana OT Association and the Occupational Therapy Committee for the Indiana Professional Licensing Agency. Later this spring, she will be married and will change her name to Sharon Lucas Keck.

IU OT alumni

received awards at the 2008 American Occupational Therapy Association (AOTA) annual conference in Long Beach, Calif. AOTA service commendations were presented to:

Jacquelyn Chamberlin, Class of 1965

Thomas Fisher, Class of 1977

Lindsey Lawrence, OTA, Class of 1986

Linda Orr, Class of 1972

Susanne Smith Roley, Class of 1976



The Spirit of Philanthropy

In April, physical therapy alumna Jane M. Gerardot, of Fort Wayne, was honored by the School of Health and Rehabilitation Sciences at IUPUI's Spirit of Philanthropy luncheon and awards ceremony. The annual event recognizes donors to campus academic and business units. Portions of the text at right appeared in the Spirit of Philanthropy program.

Jane Gerardot left rehabilitation health care and administration for a law career more than 20 years ago. Yet the physical therapy field remains so close to her heart that she still maintains her license to practice.

In the early 1970s, Jane earned her bachelor of science in physical therapy and master's degree in allied health education on what is now the IUPUI campus. For 18 years afterward, she worked as a physical therapist, health care administrator, and owner of a physical therapy and rehabilitation practice. Her time as a student and a professional affected her deeply, and her generosity toward the School of Health and Rehabilitation Sciences reflects her desire for future alumni to have equally rewarding experiences.

Jane is frank in discussing her former profession. "Rehabilitation — including all the related therapies — is the under-recognized and under-utilized arm of medicine," she said. "My gift (to SHRS) is a gesture of my support and encouragement to a field that deserves more for research and education."

Jane's physical therapy education played a significant role in her character and career development. She hopes her contributions to SHRS demonstrate her gratitude.

"I want to promote health and rehabilitation education in any way possible," she said, "particularly at the School of Health and Rehabilitation Sciences so it can continue to produce the highest caliber of rehabilitation practitioners in Indiana."

Valerie Hermann, distinguished alumna and student



Valerie Hill Hermann, M.S., OTR, is being recognized as the first recipient of the School of Health and Rehabilitation Sciences Distinguished Alumni Award. The SHRS Alumni Board

established the award to recognize graduates who are in good ethical standing within their profession, have made significant contributions to the respective field of practice throughout their career, have gained widespread recognition and respect for these accomplishments, and have made professional contributions that reflect favorably on the school.

Since graduating with her undergraduate degree in occupational therapy in 2004, Valerie earned a master of science in health sciences education in 2006, and enrolled in the health and rehabilitation sciences Ph.D. program in Fall 2008, all at the SHRS.

Besides having outstanding academic preparation, Valerie has contributed to the field of rehabilitation through her practice as an occupational therapist, continually conducting research and presenting at conferences and publishing. In addition to these activities, she has been very active in the Ohio Occupational Therapy Association (OOTA).

Valerie's leadership skills became evident as an undergraduate. She was the recipient of the Dr. Carol Nathan Leadership Award, based on faculty and student votes. Recently,

she received the Model Practice Award from the OOTA for her significant professional contributions through the demonstrations of innovative and progressive state-of-the-art interventions and development of assessment tools. She was recognized for her overall contributions to the field of neurorehabilitation, as an occupational therapist.

Valerie has also been academically productive during her five years as an occupational therapist. The scholarly product completed for her M.S. in health sciences education was the development of an interdisciplinary dementia course which she implemented at Cincinnati's Christ Hospital. She has produced 11 peer-reviewed publications, three as first author, all published in top-tier journals, including *American Journal of Occupational Therapy*, *Neurorehabilitation and Neural Repair*, *Stroke*, *Journal of Hand Therapy* and *Journal of Neuro Physical Therapy*. She has presented locally, regionally, and nationally. In addition, through her research at the University of Cincinnati, Valerie has been engaged in developing audio-visual web-related media with her research mentor, Stephen Page, Ph.D., resulting in five products.

With her accomplishments and professional activities, it is no surprise that the Departments of Occupational Therapy and Health Sciences are very proud of this alumna. Valerie received the Distinguished Alumni Award during the alumni Reunion Weekend on May 16, 2009.

New Ph.D. program offered

In Fall 2008, the school welcomed its first class of students for the newly approved Ph.D. in Health and Rehabilitation Sciences. The purpose of the degree is to develop scholars who, through their leadership and original research, will contribute to the knowledge base in health and rehabilitation science. The six students in the charter class represent the disciplines of dietetics, exercise science, global health outcomes research, occupational therapy, physical therapy, and statistics/medicine. More information on the degree can be found at www.shrs.iupui.edu/health_sciences.



School participates in Jagathon

IU Department of Occupational Therapy students participated in the IUPUI Jagathon event on February 13, 2009, to raise money for Riley Hospital for Children. Participating students (above, left to right) Katie Brecheisen, Becky Rawlins, Jennifer Gardner, Kasie Knies, Laura Horvath, Jaime Becker, and Amanda Burch together raised more than \$500. The IUPUI Jagathon event raised more than \$12,200 for the hospital. In addition, the students earned table space at the event and distributed brochures with information about the IU program and OT profession.

Student community service

Community service is an important part of an educational rehabilitation program and is reflected in the health promotion course offered in the doctorate in physical therapy curriculum. The PT students have fostered community partnerships with three sites: Goodwill Industries, Hawthorne Community Center, and Noble of Indiana. The goal of these projects is to provide health education on aspects of health and wellness designed to encourage healthier living.

Feedback from the community sites has been enthusiastic, as both Hawthorne Community Center and Noble of Indiana have recognized our students in their year-end reports. Goodwill Industries named the PT department as a 2006 Partner of the Year.

The community service efforts have also inspired students in other ways beyond their required coursework. They have independently organized food collection efforts, participated in Habitat for Humanity, and developed an academic study reflecting on service learning experiences.

Children's Museum collaboration

Nutrition students enrolled in the recently approved e-learning Leadership in Pediatric Nutrition Graduate Certificate Program worked with the Children's Museum of Indianapolis, to develop the nutrition component of the Health House. Under the direction of Dr. Karyl Rickard, Allison Ehalt and Katy Brown conducted focus groups with parents and young children, tested recipes and evaluated nutrition related messages delivered through the Health House. The next time you visit the Children's Museum, be sure to visit the Health House where you will see nutrition education in action.



Department of Physical Therapy student success

The fifth doctorate of physical therapy class graduated this May; and while the transition from the B.A. to the D.P.T. has been challenging, each class has continued to build upon the legacy established many years ago. Our students have successfully applied their clinical decision-making and technical skills routinely over the past several years, evidenced by their strong clinical educational evaluations and overall performance after graduation. The department is also celebrating the successful performance of our graduates on the PT national board exam; currently, the program's three-year average for first-time pass rate is 93 percent — ranked among the highest in the country!

Occupational Therapy students provide help for the holidays

The Department of Occupational Therapy's student organizations, SOTA (Student Occupational Therapy Association) and PTE (Pi Theta Epsilon Academic Honor Society), joined forces this past Thanksgiving to collect food for those in need. Together they collected 361 food items, all of which were donated to the Gleaners Food Bank in Indianapolis. In addition, SOTA participated in the adopt-a-family program for Christmas. They adopted a single mother and her 24-month-old child. They were able to provide everything on the family's wish list, plus much more. Due to the students' generosity, the adopt-a-family project was extremely successful and made a difference for this family at Christmastime.

OT student co-authors article

Look for OT student Katie Watts and Dr. Janet Everly to be listed as contributing authors in the May issue of *Exceptional Parent*. Katie, a student in Dr. Everly's Advanced Occupational Therapy for Children class, was required to write on a current trend in therapy or on a clinician's query. Her paper, "Helping Children with Disabilities Through Animal-Assisted Therapy," evolved into an article submission with Dr. Everly as second author.



Farewell, Dr. Brady

Dr. M. Sue Brady, professor of nutrition and dietetics, retired in December 2008. She completed her dietetic internship, master's, and doctor of medical science degrees at Indiana University. She was director of pediatric nutrition services at J.W. Riley Hospital for Children for 18 years. Dr. Brady and Dr. Karyl Rickard jointly developed the department into a nationally recognized model for clinical nutritional care of children with therapeutically demanding illnesses. In partnership with Dr. Rickard, Dr. Brady implemented the Leadership Education Excellence in Pediatric Nutrition Program. Sponsored by the U.S. Department of Health and Human Services' Maternal and Child Health Bureau, the program changed the field of pediatric dietetics. At her retirement, dietitians she educated, mentored, and coached honored her accomplishments and service.

Dr. Chiung-ju Liu recently joined the Department of Occupational Therapy faculty. Her scholarly work involves promoting health literacy in older adults and systematic review of rehabilitation outcomes. She was awarded a research support grant from the university to support her work in increasing people's understanding of written information on colon cancer. She co-authored a book chapter "Stroke-Specific Functional Assessment Instruments" in *Stroke Recovery and Rehabilitation* (2009), a valuable reference for clinicians who work with stroke survivors.



Recovery and Rehabilitation (2009), a valuable reference for clinicians who work with stroke survivors.

Physical Therapy faculty present cutting-edge research and teaching at national meeting

The Department of Physical Therapy faculty gave several well-received presentations at the 2009 American Physical Therapy Association combined sections meeting in Las Vegas.

The faculty were pleased with the attendance and positive feedback from their research and teaching presentations. Drs. Robyn Fuchs and Stuart Warden gave a workshop addressing the PT role in the development of treatment programs to optimize bone health and reduce the risk of fall-related fractures. Dr. Peter Altenburger presented a talk entitled "Framework of Assessing Competitive Dimensions in PT Education" and was involved with a presentation entitled "Case Series Presentation" with Dr. Amy Bayliss, Professor Terry Loghmani, Dr. Lisa Riolo, and Professor Valerie Strunk. The latter presentation showcased an overview of a novel curriculum aimed at enhancing students' problem-solving and clinical decision-making skills through

the use of a family tree spanning four generations. Participants attending this lecture were excited and vocal about the concept of using case studies.

The PT faculty are now working on ideas and research presentations for next year's meeting!



Presenters at the CSM meeting (l to r): Peter Altenburger, Lynn Taylor, Terry Loghmani, Valerie Strunk, and Amy Bayliss.

Thomas F. Fisher, Ph.D., OTR, CCM, FAOTA

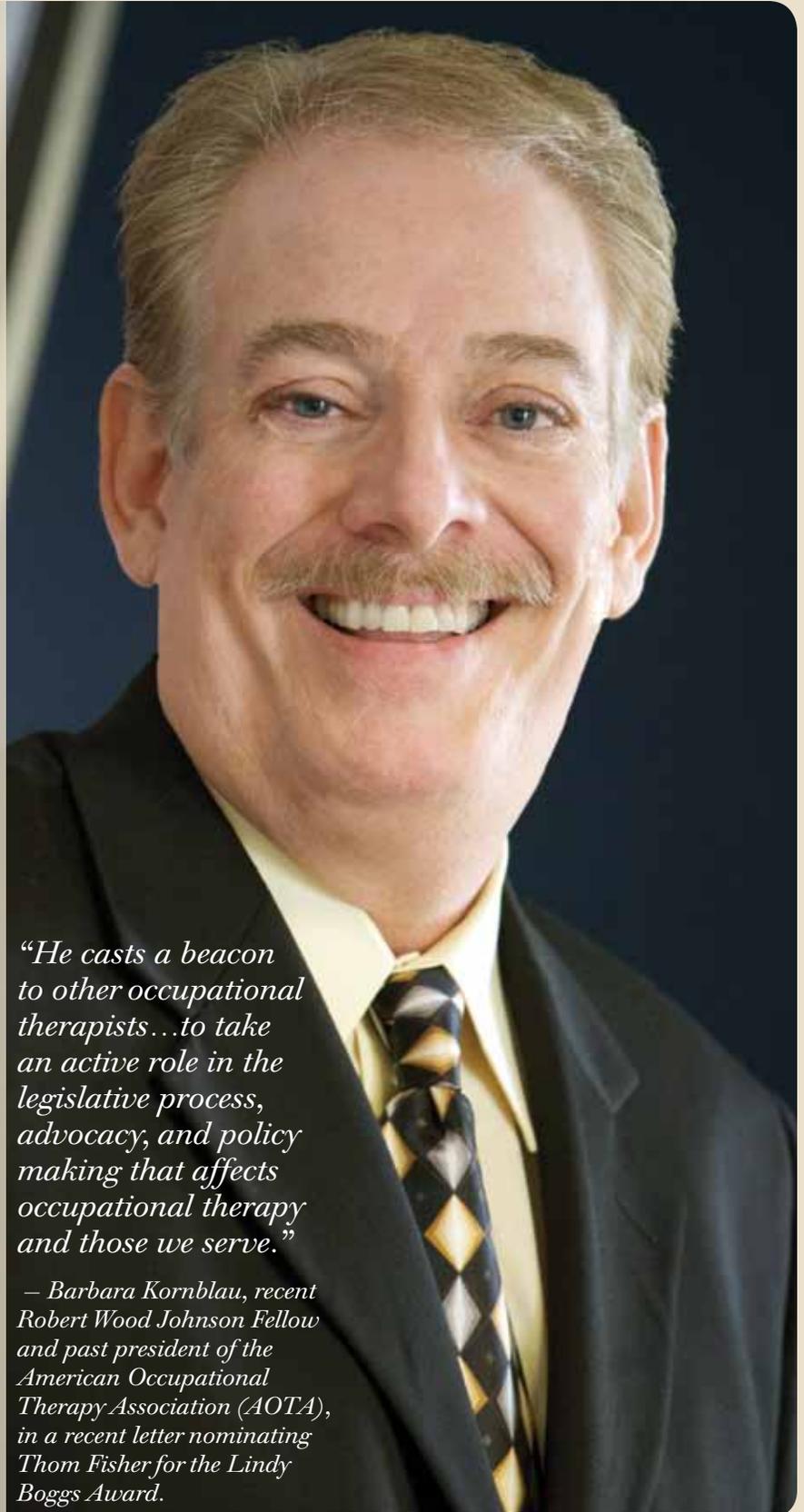
A natural leader

This is a big year for Dr. Thom Fisher, Class of 1977. A founding chair of the graduate program in occupational therapy here, he is ever tireless in his service to the profession of occupational therapy and IUPUI. He has been elected to the AOTA board of directors and begins his term in July. In April, the AOTA presented him with the Lindy Boggs Award for service to enhance the understanding of Occupational Therapy by elected officials. The award is given to individuals who demonstrate outstanding contributions in all areas, including training and organizing occupational therapists to impact state or federal legislation; educating legislators and key government officials about the purpose and function of occupational therapy; advocating for consumers of health care and educational services; and playing an active role in state activities relating to the American Occupational Therapy political action committee.

Dr. Fisher has had a major impact on legislative efforts for occupational therapy licensure in two states. Having successfully led Kentucky's licensure campaign 20 years ago, he is currently waiting for the Indiana legislature to pass the final rules governing the licensure law he spearheaded in 2007. As chair of the legislative and advocacy committee of the AOTA, he has borne the primary task of authoring this process and guidelines. For his efforts, he was named 2007 Occupational Therapist of the Year by the Indiana Occupational Therapy Association.

Dr. Fisher still finds time for a personal life: he and his wife, Debbie, are the parents of five children and grandparents to four grandchildren – so far.

A natural leader admired by his faculty, staff, students, and alumni alike, the School of Health and Rehabilitation Sciences is fortunate to have Thom Fisher moving the department forward and the school into the national spotlight.



“He casts a beacon to other occupational therapists...to take an active role in the legislative process, advocacy, and policy making that affects occupational therapy and those we serve.”

— Barbara Kornblau, recent Robert Wood Johnson Fellow and past president of the American Occupational Therapy Association (AOTA), in a recent letter nominating Thom Fisher for the Lindy Boggs Award.

Teaching students in the clinic

Collaboration to bring research into practice

Education of occupational therapy students includes preparing them to use research evidence in professional practice. The use of evidence does not happen in the classroom, rather it occurs in the context of the practice community – in the interaction between therapist and client. Because the very real problems experienced by therapists are in the clinic, Associate Professor Patricia Scott decided to bring the students to the real source of these clinical questions: the clinic.

The clinic Dr. Scott is collaborating with is the Rehabilitation Hospital of Indiana (RHI) where 25 occupational therapists treat clients with a range of disabling conditions from head injuries, to spinal cord injuries, to hip fractures and beyond. Many of the experienced clinicians did not receive formal training in evidence-based practice (EBP) during their academic preparation and the resources available to access this research are quickly evolving. As a result, many clinicians find it challenging to sift through the quantity of evidence being produced. The EBP class is a direct response to the needs of practicing clinicians to stay abreast of current best

practices and an opportunity for students to hone their skills by answering pertinent questions before entering the workforce as a therapist.

The RHI occupational therapists first were asked to think about specific clinical scenarios and develop a corresponding research question. Students were then able to choose a topic and were placed in groups. Students and therapists met and discussed the clinical scenario so the students could refine their literature search. During lecture presentations students learned effective practices for searching databases and how to evaluate studies. Summaries of the evidence are now hanging in the lobby at RHI for health professional, families, and clients to read.

This collaboration has been a great way to meet the needs of both current practitioners and current students. The larger RHI community of health professionals, patients, and their families will also benefit from the collaboration as findings are freely accessed from the posters at RHI. It has been an academic collaboration benefiting everyone involved.



PT/Pacers partner up

The Department of Physical Therapy recently established a clinical education partnership with the Indiana Pacers. The Pacers' training room is overseen by two physical therapists who also hold certificates in athletic training. They accepted their first student, Matt Holder, D.P.T. Class of 2009, for a 12-week clinical internship this spring. Matt says the best thing about studying with the Pacers' therapists is getting to see how PT can aid in the prevention of injury in high-level athletes, as well as in the rehabilitation aspects of athletic performance. Matt has also appreciated the chance to learn manual therapy techniques he did not have the opportunity to learn in class.

Matt Holder is the first IU D.P.T. student chosen to study with the Pacers' PT staff. Matt's mustache is courtesy of the mustache-growing contest he entered with the players and training staff while interning there.



A near-perfect match

Excellent clinical education outcomes can be enhanced when the right student is matched with the right clinical instructor (CI) at the right clinical site. This has never been truer than in the case of third-year D.P.T. student Erin Bower. Ranked first in her class, Erin has been wildly successful in her D.P.T. student career despite the traumatic loss of her left hand when she was 5 years old. Recently, Erin had the opportunity to attend a clinical rotation with a physical therapist who had a unique perspective on Erin's learning needs.

Kelly Soukup, a PT at Minnesota Sport and Spine in Eagan, Minnesota, agreed to be a CI to Erin for her orthopedic outpatient rotation in January 2009. Kelly has practiced as an orthopedic PT for nearly 11 years with a left arm amputation. Kelly enjoys teaching students, and states, "Learning is a two-way street. We as clinicians benefit from students just as much as they benefit from us. Students help prevent me from getting sloppy and developing bad habits in my practice."

Kelly immediately recognized the opportunity to learn from Erin. "On a personal level, in my 30-plus years of only having one arm, I had never met someone with a similar situation. It was most interesting to talk with her regarding the daily life of someone just like me."

Erin learned a lot from Kelly largely because he uniquely understood her learning needs. "The best thing about working with Kelly was that he threw me right into the orthopedic setting. Before, I wasn't confident in my orthopedic skills and was fearful that I was going to have a lot of difficulty working with my prosthetic. After observing how Kelly interacts and handles patients, I felt more confident that I could do the same. The best advice he gave me was to know my strengths and limitations in regards to patient care and what I feel comfortable doing with my prosthetic."

Measuring participation

Understanding how people restore their lives after liver transplants

If you ask a dozen people what constitutes *full participation in society*, you are likely to get a dozen answers. Yet there is agreement that full participation is the goal we aspire to achieve after we spend hundreds of thousands of dollars – or more – on high-tech, life-saving medical procedures following organ transplants, reattachment of limbs, reconstruction of broken bodies, and treatment of life-threatening diseases.

The science explaining how people return to and find meaningful engagement in their lives after surviving these long and costly medical procedures has just not kept up with the ability to put their bodies back together.

Patricia J. Scott, Ph.D., M.P.H., OT, FAOTA, associate professor of occupational therapy, believes that careful study of liver transplant recipients is a way to start understanding return to participation. Her work with Dr. Paul Kwo, Dr. Joseph Tector, and the rest of the IU transplant team is designed to find these answers. Most diseases cause liver failure to happen gradually, compromising the person's ability to live their life to the fullest. This decline often takes place years prior to the actual liver failure. But after transplant, the potential exists for these organ recipients to return to healthy lives. Transplantation is a tricky process and these people will be followed medically the rest of their lives. Many recipients return to or exceed previous life participation, some are medically unable, but what about the rest? Is there a way health professionals can identify people at risk for problems early on and prevent these participation problems?

“To stop at fixing the physical body is to leave the job undone. We need to go one step further and enable the people to live their newly restored life to the fullest.” – Dr. Patricia J. Scott

Dr. Scott hopes her research will help answer these questions. Currently, she and her graduate students are examining the participation patterns of liver transplant recipients at the IU-Clarian Transplant Center, one of the nation's largest transplant facilities. Dr. Scott's team has just completed the first phase of a four-phase project during which 161 recipients, most of whom (90 percent) are between 3 and 10 years post-transplant, filled out a survey on their life satisfaction, quality of life, continued problems with liver disease, and social role participation.

Dr. Scott is looking forward to the analysis of the data from this group to provide information about what the participation patterns of these stable recipients look like to enable further study and bring answers to these questions. An understanding of how people successfully restore their lives will position Dr. Scott and her colleagues to help health professionals better prepare transplant patients and their families for successful outcomes.

OT research focuses on barriers and interventions for stroke patients

Arlene Schmid, Ph.D., OTR, an assistant professor with the IU Department of Occupational Therapy, recently began a study supported by a four-year, \$430,000 Veterans Administration Rehabilitation Research and Development Career Development Award. Working with her mentors, Drs. Thom Fisher, Linda Williams, and Teresa Damush, Dr. Schmid's study, "Re-establishing Social Participation After Stroke," will identify patients' key barriers to social participation after stroke with the long-term goal of building occupational therapy interventions for stroke survivors. Dr. Schmid has also completed two pilot studies regarding the fear of falling: one studying the development of fear of falling after stroke and a second looking at the impact of yoga on fear of falling.



PT faculty awarded more than \$1 million to optimize bone health

Department of Physical Therapy faculty were recently awarded more than \$1 million from agencies such as the National Institutes of Health, NASA, National Osteoporosis Foundation, and Eli Lilly and Company to perform a diverse range of studies into factors influencing bone health.

Dr. Robyn Fuchs and Dr. Stuart Warden currently are performing a series of studies focusing on bone health during the adolescent growth period during which approximately 25 percent of adult skeletal mass is formed. They have found that by optimizing bone mass and structure during adolescent growth, the skeleton can be primed to offset bone loss that occurs with aging – essentially adolescent bone health influences lifelong bone health.

Dr. Fuchs is investigating the role of periostin, an important protein in bone health, for adolescent bone growth. In contrast, Dr. Warden is examining whether exercise during growth results in lifelong benefit to bone size and strength. His recent study found that adolescent baseball players tend to have very large side-to-side differences in the size and strength of their upper arm bones. He is now investigating whether these side-to-side differences persist with aging in retired baseball players.

Dr. Warden is also performing studies to develop novel treatments for bone fractures in astronauts. Future extended space missions are planned, and will expose astronauts to extended periods in a low gravity environment. The resultant decline in bone health combined with the fact that astronauts will be completing strenuous physical tasks heightens their risk for bone injuries. Dr. Warden, in collaboration with The Cleveland Clinic, will utilize an Earth-based space analogue to develop potential fracture treatments occurring in a low gravity environment.





Meat diets may prove beneficial to HIV-infected Kenyans





Dr. Judith Ernst, associate professor of nutrition and dietetics in the School of Health and Rehabilitation Sciences is the lead principal investigator of the project titled “Increasing Animal Source Foods in Diets of HIV-Infected Kenyan Women and Their Children.” The project, which is now in phase three, is a randomized nutrition feeding intervention which evaluates the effect of protein quality and micronutrients in meat on the health and nutritional well-being of drug-naïve women living with HIV in rural Kenya and the health and development of their vulnerable children. Isocaloric nutrition intervention biscuits that contain meat, soy, or wheat protein were developed in phase one and then pilot-tested in rural Kenyan women and young children in the second phase. The project is complex and expensive with an annual budget that exceeds \$700,000. A field staff of nearly 70 is required to deliver the intervention biscuits daily to 225 families in rural western Kenya using directly observed treatment (DOT) and to obtain the repeated outcome measures throughout the 18-month intervention and for six months post-intervention. It is anticipated that enrollment will be complete by July 2009 and that field activities will continue through July 2011.

The study population receives medical care at the Turbo Rural Health Center, one of the rural clinics that have been established by the Academic Model Providing Access To Healthcare (AMPATH) program in Kenya. The United States Agency for International Development (USAID)-AMPATH Partnership operates under the joint direction of Moi Teaching and Referral Hospital and the Moi University-IU School of Medicine and cares for more than 79,000 HIV-infected adults and children at 19 clinics in rural and urban areas in western Kenya.

The 225 families are provided with:

- Bio-sand water filters (\$27 per unit) to ensure safe water for bathing, laundry, and drinking
- Mosquito nets (\$25 for five nets/family) for prevention of malaria and other insect-borne diseases
- Treatment of all family members for parasites every three months (\$2.50/treatment or \$12.50/family/year)

Tax-deductible contributions can be made to the Indiana University Foundation by either of the following methods:

1) Mail donation

Download and complete the form found at http://iufoundation.iu.edu/give-now/donation_form.pdf; and mail to IU Foundation, Attn: Depositor, Post Office Box 500, Bloomington, IN 47402. Please be specific about the designated project (I32P035036 Judy Ernst Kenya Project).

2) Donate online

Access givetoiu.iu.edu; Select Indianapolis, then select School of Health and Rehabilitation Sciences and add the following account to the list (I32P035036 Judy Ernst Kenya Project), add details and amounts, and then make the donation.

Additional information about this study can be found at:

<http://glcrsp.ucdavis.edu/publications/HNP/08-01-HNP.pdf>; <http://glcrsp.ucdavis.edu/publications/?project=hnp>

The 501(c)(3) number is 35-6018940.



SCHOOL OF HEALTH AND REHABILITATION SCIENCES

INDIANA UNIVERSITY
IUPUI

Coleman Hall Room 120
1140 W. Michigan St.
Indianapolis, IN 46202-5119



You can make a difference!

As our school continues to grow and create lasting impacts on health and rehabilitation science education, we are thrilled at the milestones we have made in both the academic and research fields. Annual gifts from our donors have helped pave the way by facilitating internationally renowned faculty research, heightening student educational experiences, providing essential scholarship opportunities, and allowing vital renovations of classroom and laboratory facilities. The generosity of our alumni and friends has allowed our school to create an environment in which students and faculty flourish – and we are extremely grateful for their involvement in our success!

There are many ways to contribute to our mission and for additional information on these giving opportunities, please contact Dean Augustine Agho at:

School of Health and Rehabilitation Sciences
Coleman Hall, Room CF120
1140 West Michigan Street
Indianapolis, IN 46202-5119
317-274-4702
aagho@iupui.edu
www.shrs.iupui.edu

