

The Institute News

Vol. IV, No. I

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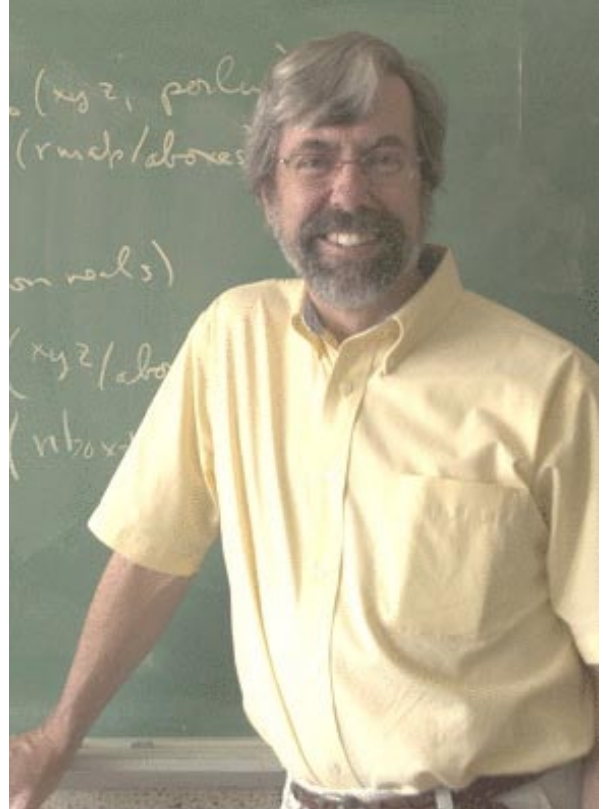
New Certified Members:

- Dr. Murray Daw
- Dr. Ken Klenk
- Fr. Vince Bork

Dr. Murray Daw

Murray Daw is the R. A. Bowen Professor of Physics in the Department of Physics and Astronomy at Clemson University in Clemson, SC. He received his B.S. degree in Physics from the University of Florida in 1976 and Ph.D. in Physics from California Institute of Technology in 1981. Following his Ph.D., he joined the Materials Group at Sandia National Laboratory, California, where he originated the Embedded Atom Method, which has become the workhorse for atomic-scale investigations of the mechanical properties of structural materials. During his 13 years at Sandia, he helped establish an active group in computational materials science, and was promoted to Distinguished Member of Technical Staff.

He joined the faculty of the Physics Department at Clemson in 1994, where he has participated in the rapid growth and development of their materials physics group. From 1998-2000, he was on leave from Clemson to work at Motorola's Semiconductor Product Sector in Austin, TX, where he was Senior Scientist and Section Leader in the Computational Materials Group, and participated in joint projects between Motorola and the Los Alamos National Laboratory in New Mexico. He returned to Clemson in 2000. He has carried out research in many areas of materials physics, including semiconductors, surface physics, and mechanical properties of metals. His main



Prof. Murray Daw,
New IAP Adjunct Faculty Appointment

research interests currently include work in mechanical properties and in new materials for thermoelectric applications.

Prof. Daw is author or co-author of over 100 publications and is on the ISI's list of Most-Cited Physicists. He has won a number of awards for his research, including DOE award for Sustained Outstanding Research in Metallurgy and Ceramics and the Sandia Award for Excellence. He was elected Fellow of the American Physical Society in 2000, and Fellow of the American Academy of Arts and Sciences in 2004. He became a certified member of the Institute for Advanced Physics in 2005 and was appointed Adjunct Faculty of IAP in February 2006.

Dr. Ken Klenk

Ken Klenk attended Penn State University, Abington Campus and LaSalle University to obtain a B.A. degree with a major in Physics in 1969. He received a Ph.D. in Physics from Lehigh University in 1973. The title of his dissertation was "Application of the Glauber Approximation to Elementary Particle Collisions."

Dr. Klenk was post-doctoral research associate both at Kent State University where he studied the transport of trace contaminants through porous media and subsequently at the University of Florida where he worked on solving inverse problems in atmospheric optics using radiative transfer methods. As a contractor scientist supporting Goddard Space Flight Center in Greenbelt, Md., he developed algorithms for the determination of atmospheric ozone from satellite backscattered ultraviolet measurements.

Dr. Klenk has managed space and earth science projects in support of NASA Goddard Space Flight Center, Jet Propulsion Laboratory and the U.S. Geological Survey. Today Dr. Klenk works as an independent consultant. He lives in Sioux Falls, SD. His interests include playing tennis, guitar, and expanding and sharing his knowledge of Church history, philosophy and theology.



Fr. Vince Bork

Fr. Bork studied physics at Notre Dame (BS, 1981) and later at Washington University (PhD, 1986). Graduate studies included the study of amorphous solids using low temperature deuterium nuclear magnetic resonance (NMR). Post-doctoral research was directed towards elucidating structural and dynamic information from polymers and biochemical compounds using Cross-Polarization Magic Angle Spinning (CPMAS) NMR.



Fr. Bork spent the next three years teaching mathematics and science at Christendom College, where he also took classes in Thomistic philosophy. He then applied for the priesthood for the Diocese of Arlington, Virginia and attended Mt. St. Mary's Seminary in Emmitsburg, Maryland where he complemented required courses with Thomistic electives.

Since being ordained in 1995, Fr. Bork has been immersed in pastoral ministry whereby he strives to bring souls to Christ especially through the sacramental mediation and the promotion of devotions including the Divine Mercy and Total Consecration to Holy Mary. He enjoys working with the formation of the youth: "Integral formation involves more than just catechesis using sound Catholic doctrine. Young people especially need intense intellectual formation so as to serve Christ in a culture characterized by subjectivism and relativism."

IAP Calendar

March 1

Southern Catholic College, Dawsonville, GA
"(Let) Science Come Home"
Presentation by Dr. Rizzi

IAP meeting with Southern Catholic College (SCC)

Topic: How to structure the SCC science program

IAP representatives:

Dr. Rizzi, Dr. Stoner, and Dr. Daw

SCC representatives:

Dr. Ashcroft, Dr. LeBlanc, Dr. Hartmann



March 28

Diocese of Kansas City, MO lecture

"(Let) Science Come Home"

Afternoon meetings with diocesan officials, including Bishop Robert Finn, about science issues

July 27-29

IAP Fourth Annual Conference,

University of Notre Dame, South Bend, IN
"Physics for Realists III"

November 4

American Maritain Association Annual Conference,

Aquinas College in Nashville, Tennessee
 Dr. Rizzi gives Plenary Talk:

"Nature, Science and Wisdom: The Role of the Philosophy of Nature"

Testimonial

An email from D.F. who traveled with her husband to EWTN to meet Dr. Rizzi in person after one of the live shows:

"Dear Dr. Rizzi, It was a great honor to meet and converse with you this past week at EWTN. Before I found your book *The Science Before Science* I had despaired to ever developing an argument cogent and systematic enough to address the persistent objections of my father-in-law, who is a theoretical physicist, to belief in God. He is one of so many that find it necessary to take a neutral position on His existence in order to maintain 'intellectually honesty'. My heroes are those people in the world who work to 'bring sight to the blind' in order that they might know God and choose him. Scientists often seem to be blinder and less aware of it than any other class of people and, therefore, as wretched as anyone. For your ministry to them you have my admiration, gratitude and continual support in prayer..

Thank you so much for the work you are doing. Now I have a resource with which I can sharpen my own thinking and refer any thoughtful seeker toward without fear of missing the golden moment due to inadequately rigorous material."

Volunteers Advance IAP Mission

Associate Member Phillip Bellini helped in timing and editing the script for the EWTN five episode mini-series. The series was taped in December with co-hosts Dr. Anthony Rizzi and Marcus Grodi. The production is now in the editing stage.

Associate Member James Louviere provides on-going multi-media assistance, including taping interviews for the EWTN series.

Certified Member Capt. Steve Guse provided editorial assistance on the first issue of **IAP's new journal: *Integral Physica***. Dr. Rizzi and his team



published the 67 color page journal which contains, among other things, papers that were presented at IAP's second annual conference held in 2004. It provides foundational material for the IAP members *working* on the college textbook *Physics for Realists*. Currently, the journal is available to IAP members working on the textbook. It will be made available to the public after the textbook is published. Capt. Guse is also researching video clips for the EWTN series and editing IAP's textbook.

We are thankful to Certified Member Fr. Vincent Bork for assisting with the spring 2006 newsletter. He is teaching a course on The Science Before Science to high school students and is assisting IAP on special projects.

We are grateful to IAP's board of advisors who have been especially active in our various recent projects.

Want to volunteer?

Contact Susan at

info@iapweb.org

Looking for a **great Father's Day gift**? Don't forget about your priest, minister and boss:

With a donation of \$50 or more you will receive an autographed copy of:

**The Science Before Science:
A Guide to Thinking in the 21st Century**

Send check or money order to:

The Institute for Advanced Physics
PO Box 15030, Baton Rouge, LA 70895

Please include your email address and phone number! And don't forget to tell us who's name to address the autograph to in the book.