



THE INSTITUTE FOR ADVANCED PHYSICS

The Institute News

- **New Physics for Realists Textbook!!!!**
- **IAP Welcomes a New Associate Member**
- **EWTN Series Party**
- **Science Before Science Audio book**
- **New Associate Member, Level II**
- **Substance Exhibit and Fund Raiser**
- **2008 Summer Conference at Notre Dame**
- **TV Interview Announcing New Textbook**
- **Raffle Winners Announced**

The New Physics for Realists Textbook



"Physics for Realists is a landmark textbook, that uses our common sense to discover and clarify modern physical theory. The resulting pedagogical approach makes physics more accessible and its beauty more evident. This book will revolutionize our understanding of physics and the way it is taught."

*~Murray Daw, Bowen Prof. of Physics
Clemson University*

Physics For Realists presents the fundamentals of Newtonian Mechanics to the college undergraduate or the advanced high school student in a way that taps the student's common sense. Starting with things we see directly, it leads the student to a deep understanding of the best in modern theory. Each chapter builds on the previous one in a simple way to the crescendo of special relativity, drawing the student at each step into the excitement of physics. This profound unity of principle is complemented by a unity of practice through the challenge of a manned mission to Mars by AD 2030, which is the current commitment of the US. Real world problems and examples salt the text, helping the student to ground his thinking and see the importance of physics to everyday life. It is the hope of the IAP that this approach will make the rigorous, scientific content at once engaging and challenging to both those interested in careers in the hard sciences and also those not traditionally attracted to mathematics and the hard sciences.

The text walks the students from their common sense to the full mathematical treatment. In the *Physics for Realists* (PFR) textbook, the qualitative comes first; then we introduce the student to the full

quantitative theory so they can really understand the math. This is the first physics textbook ever that grounds Newtonian physics in common sense (note: Newtonian physics has been around for 300 years). PFR deepens our understanding of physics as well as attracts, by its simple starting point, more students to physics.

"Physics for Realists breaks new ground and will improve our ability to think in all areas of life for decades to come. It is an historic leap out of the dictatorship of relativism."

~Fr. Benedict Ashley, IAP Associate Faculty and former President of Aquinas Institute of Theology, St. Louis, Missouri

IAP Welcomes a New Associate Member



David Darbonne is a clinical laboratory scientist who owns and operates Eunice Medical Laboratory, Inc., an independent clinical laboratory in Louisiana. He has previously marketed and managed pathology and laboratory services for Pathology Group of Louisiana and Our Lady of the Lake Regional Medical Center in the Acadiana area.

David has a Bachelor's Degree in Medical Technology from the LSU Medical Center's School of Allied Health Professions and national certification from the American Society of Clinical Pathologists.

David's concern for those who struggle with knowing truth attracted him to *The Science Before Science*. His concerns regarding those trapped in our modern culture and its misleading systems of thought and emotion led him to seek out the common sense rigorous teachings of the Institute. He was excited to find out about Dr. Rizzi and the Institute's mission of putting first things first when it comes to knowing our physical world and ultimately He who is. We welcome David to the IAP team!

EWTN Series Party



EWTN aired *The Science before Science* series on September 24-28, 2007. Members and volunteers gathered at the Institute to view the second episode of the series, to discuss future endeavors and to celebrate. The second episode, titled "Sorting out Knowledge and Faith: the beginning of Wisdom", makes the point that *knowledge* comes first, not faith.



From left to right: James & Ruth Anne Louviere, Phillip Bellini, Fr. Cliff Hill, Jamie Anson, James Stoner, Don Caffery, Anthony Rizzi, and Larry Anderson



Phillip Bellini receiving his Certificate as IAP Associate Member in September 2007, certified in Fall 2005. Mr. Bellini initiated *The Science Before Science* audio book project and the Substance fund raising event.

The Science Before Science **Now on Audio book**

The idea to record *The Science Before Science* and make it available as an audio book, was a project first introduced and initiated by **Associate Member Phillip Bellini**. Having understood the value of re-reading the book, Bellini recognized the need to keep returning to the text to plumb its depths. Thanks to Bellini's foresight, readers can now go back to the text again and again listening on their iPod, computer, or car-stereo. The audio book is read by Jamie Anson.

Now readers can learn how to navigate the 21st century while commuting or during their vacation drives to their favorite rest spot! Hone your understanding of the key problems that are shaping the culture we live in and learn how to intelligently respond. Get your download version of the 11.8 hours of mind-opening listening that will deepen and integrate your life for \$30. Just visit the site below:

<http://www.iapweb.org/store/>



New Associate Member, Level II

Jamie Anson, IAP Education and Development Projects Manager, recently earned his Associate Membership. Jamie's Level II membership consisted of a more rigorous program that he pursued on account of his position within the Institute. He continues to learn daily the new way of thinking in the 21st century articulated in *The Science Before Science*.

Jamie has a BS in Neuroscience from Washington State University and worked in an Diabetes and Obesity research lab prior to his arrival at the Institute.

Substance Exhibit and Fund Raiser

An exhibit explaining the important concept of substance and its consequences in our everyday lives, including our relationship with God, was presented by the Institute at Our Lady of Mercy Church Activity Center, Baton Rouge, LA on December 1 and 2, 2007. Over 750 visitors viewed the exhibit during the two day period.

We thank **Jamie Anson, IAP Education and Development Projects Manager**, for recruiting volunteers and organizing their efforts and for his own active presence at the event.

Many thanks to **Phillip Bellini, IAP Associate Member**, who provided the exhibit and transported it to and from the event; to **Tommy and Lynne Williston** who provided the video projector and screen, to **Don Caffery, IAP Associate Member candidate**, and **Max Harrington, Colin Sallinger and Kim Monteleone, LSU students** who were on hand to assist with the exhibit and the visitors.

We are grateful to Our Lady of Mercy Church for allowing us to use their Activity Center for the event.

Sixth Annual Summer Conference



The Institute's 2008 Summer Conference will be held on the Notre Dame University campus July 16-19.

This year physics professors have been invited as well as members, since the sessions will focus on use of the new text, *Physics for Realists: Mechanics*, in the classroom.

2008 Raffle Winners!

1st prize: Orion 70mm Refractor Telescope
Dolores Solan, NJ

2nd prize: WeatherTec wireless temperature sensor
Elena Kirkbride, OH

3rd prize: Hydrogen Fuel Rocket
Vinicombe Family, NJ

4th prize: *The Science Before Science* book by Dr. Rizzi
Betty Rein, NJ

Many thanks to the lead members of the raffle ticket sales force who made the 2008 raffle a success:

Roger Bonilla, CA
David Mammola, CA
Diahn Flair, TN
James Conway, NJ
Diana Anson, WA

Special thanks to **Rev. Stanley W. Krzyston**, pastor of St. Vincent de Paul Church, Yardville, NJ

Television Interview Announcing New Textbook

On May 28, 2008, Dr. Rizzi was interviewed by Fr. Mitch Pacwa, SJ on the television show EWTN Live. EWTN cable television has approximately 140 million viewers worldwide.

Dr. Rizzi announced the publication of *Physics for Realists*, an introductory text he has written to ground the study of mechanics in common-sense principles available to all. He pointed out the unique and historic nature of the book and spoke of it as an important step in re-establishing solid realistic thinking in our culture.

Questions from telephone callers—a regular part of the program—gave Dr. Rizzi the opportunity to further explain points about the text as well as the work of the Institute.

Thank you

Our gratitude is due to **Fr. Chris Decker** for the use of audio equipment to produce the audio book *The Science Before Science*, to **James Louviere, Associate Member**, for his production of DVDs of Institute productions, and to **Mrs. Karlyn Larue, IAP volunteer**, and **Mrs. Shirley Mitchell** for their kind assistance in the Institute's production of graphic and printed materials.

We also want to thank the **Denham Springs and Walker Wal-Mart** stores for their contributions of gift cards for office supplies.