

# AKPA Newsletter

재미 한인 물리학자 협회

Volume 26, Number 21

March, 2007

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The current and past AKPA newsletters are found in the AKPA website: <http://www.akpa.org/>.

## 1. Joint Award Ceremony and Annual Meeting

This year the OYRA award will be given at a joint award ceremony and reception at the APS March meeting. The event will be hosted jointly with the APS Forum on International Physics (FIP), Overseas Chinese Physics Association (OCPA), and American Chapter of the Indian Physics Association (ACIPA). The time and venue for this special event are as follows:

**FUNCTION:** Joint Award Ceremony and FIP Reception  
**TIME:** Tuesday, March 6, 2007, 6:00-8:00 p.m.  
**LOCATION:** Adam's Mark Hotel, Governor's Square 12, Denver, Colorado

AKPA's annual meeting will immediately follow this reception at a nearby room:

**FUNCTION:** AKPA Annual Meeting  
**TIME:** Tuesday, March 6, 2007, 8:00 p.m.-9:30 p.m.  
**LOCATION:** Adam's Mark Hotel, Director's Row F, Denver, Colorado

*Please attend both the award ceremony and the annual meeting.*

## 2. Traditional APS March Dinner

### Traditional APS March Dinner Meeting (한인 과학 및 공학자 모임)

**Place:** Ju Ju Oriental Asian Restaurant, 800 15th Street, Denver, CO 80202  
(303) 893-5858 (15<sup>th</sup> St. and Stout St., Walking distance ~ 5 minute)  
**Time:** Wednesday, March 7, 2007, 6:00 – 9:00 pm  
**Cost:** \$15 per person (Graduate Student: \$5)

**\*Gather by 5:30 pm near the APS message board at the Convention Center and walk together, or you may go directly to the restaurant.**

**Contact & info:**Yong-Hyun Kim ([Yong\\_Hyun\\_Kim@nrel.gov](mailto:Yong_Hyun_Kim@nrel.gov))Sung Kwun Lyo ([sklvo@sandia.gov](mailto:sklvo@sandia.gov))Yung Kee Yeo ([Yung.Yeo@afit.edu](mailto:Yung.Yeo@afit.edu))**Sponsors:**

AKPA,

Dr. Jin Joo Song

*Hoping to see you all at the dinner meeting on March 7, 2007,***Condensed Matter Physicists Group****(Sung Kwun Lyo, Jin Joo Song, and Yung Kee Yeo)****3. Election of the New President and Auditor**

According to our newly amended Bylaws (December 20, 2006), the election of the new (next, next) President and Auditor must be conducted by three months before the term of the President expires. The Bylaws also require that the Election Committee nominate two candidates each for the President and Auditor. Unfortunately, one of the presidential candidates withdrew and the Election Committee has thus far not been able to come up with a replacement candidate. Since the election of the President and Auditor is one of the last duties that the outgoing President must perform and my term expires in less than two months, I would like to propose that we proceed with a single presidential candidate this year. In the past, we had difficulties in conducting ballots by web. So we will conduct this vote by email.

Ho Jung Paik, President

***All members of AKPA: Please copy the ballot form below, mark your vote, and email your ballot to Dr. Taeil Bai at [tbai@sbcglobal.net](mailto:tbai@sbcglobal.net), with a copy to [hpaik@umd.edu](mailto:hpaik@umd.edu). To be eligible to vote, you need to have paid your due at least once in the past two years.***

**1. New President (Term: May 1, 2009 through April 30, 2011)**

- Dr. Cheung Ryong Ji  
 Dr. Seung Chan Ahn (withdrawn)

**2. New Auditor (Term: May 1, 2007 through April 30, 2009)**

- Dr. Yong-Hyun Kim  
 Dr. Jiyeong Gu

## Candidate for AKPA President (2009-2011)

### Cheung Ryong Ji

Address: Physics Department, NC State University, Box 8202  
Raleigh, NC 27695

Phone: (919) 515-3478, Fax: (919) 515-2471

Email: [Chueng\\_ji@ncsu.edu](mailto:Chueng_ji@ncsu.edu)



#### *Education*

1976 : B.S., Dept of Physics, Seoul National University

1978 : M.S., Dept of Physics, KAIST

1982 : Ph.D., Dept. of Physics, KAIST

#### *Experience*

1982-1984 : Visiting Scholar, Stanford Linear Accelerator Center

1984-1986 : Postdoctoral Research Affiliate, Department of Physics, Stanford University

1986-1987 : Research Associate, Department of Physics, City University of New York

1987-1992 : Assistant Professor, Department of Physics, North Carolina State University

1992-1997 : Associate Professor, Department of Physics, North Carolina State University

1997- : Professor, Department of Physics, North Carolina State University

#### *Research Interest*

Dr. Ji's research focuses on the novel and accurate theoretical predictions of the hadron structures and spectra of ordinary, strange, charm and beauty mesons and baryons. To construct a realistic hadron model consistent with the precision experimental data, the program emphasizes relativity by taking advantage of the light cone and the fundamental symmetries of  $C$ ,  $P$ ,  $T$ , crossing, duality, and unitarity.

#### *Membership*

American Physical Society, Korean Scientists and Engineers Association, Sigma Xi and Phi Kappa Phi.

#### *Professional Service*

1992-94: Regional Representative of the Association of Korean Physicists in America (AKPA)

1992-94: President of North Carolina Chapter of Korean Scientists and Engineers Association (KSEA)

1995-96: Scientific Director of the Korean High School Teachers Training Program, NCSU

1996: Editor-in-Chief of the Newsletter for the Association of Korean Physicists in America (AKPA)

1997: Conference Organizer of Nuclear Theory Summer Symposium, Seoul, Korea, June 23-28, 1997

1998- : Member of International Light Cone Advisory Committee (ILCAC)

1999: Conference Organizer of 11th International Light-Cone School and Workshop, Seoul, Korea

2004-07: Physics Councilor of the Korean Scientists and Engineers Association (KSEA)

#### *Honors*

1982: Korea Science and Engineering Foundation Fellowship

1988: Dirac Scholarship Award, 3rd Conference on the Intersections between Particle and Nuclear Physics.

## Candidates for AKPA auditor (2007-2009)

### Yong-Hyun Kim

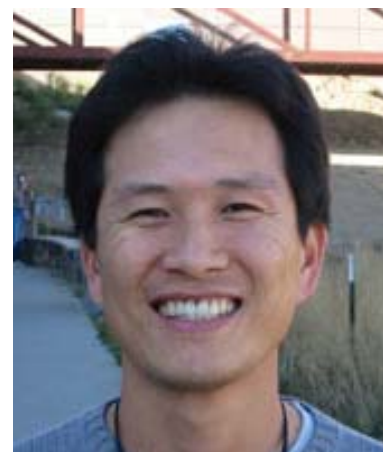
Address: National Renewable Energy Laboratory

1617 Cole Blvd., Golden, CO 80401

Phone: 303-384-6465, Fax: 303-384-6432

E-mail: [yong\\_hyun\\_kim@nrel.gov](mailto:yong_hyun_kim@nrel.gov), [yonghyun30@gmail.com](mailto:yonghyun30@gmail.com)

Webpage: <http://www.nrel.gov/cms/>, <http://dielc.kaist.ac.kr/yonghyun>



### Education and Experience

1997: B.S. in Physics, Korea Advanced Institute of Science and Technology (KAIST)

1999: M.S. in Physics, KAIST

2003: Ph.D. in Physics, KAIST

2003-06: Postdoctoral Research Fellow, National Renewable Energy Laboratory (NREL), Golden, CO

2006- : Staff Scientist II, National Renewable Energy Laboratory (NREL), Golden, CO

### Research Interest

- Computational material sciences based on density-functional theory
- Semiconductors and carbon nanotubes
- van der Waals interaction
- pH, electrocatalysts, electrochemistry, and photoelectrochemistry
- Renewable energy and solar energy utilization: hydrogen, battery, fuel cell

### Membership

- American Physical Society, Material Research Society, Korean Physical Society

### Honors

- **Best Poster Award** in “Materials for Hydrogen Storage”, 2004 MRS Fall Meeting (Boston, 2004), Yong-Hyun Kim, Y. Zhao, M. J. Heben, S. B. Zhang, *Generalized Kubas complexes as a novel means for room-temperature molecular hydrogen storage*
- **Best Poster Award** in “Materials for Hydrogen Storage”, 2004 MRS Fall Meeting (Boston, 2004), Y. Zhao, Yong-Hyun Kim, A. C. Dillon, M. J. Heben, S. B. Zhang, *Interaction of hydrogen with carbon based molecules through transition metal atoms*
- **Best Poster Award** in 2002 KPS April Meeting (Busan, 2002), Yong-Hyun Kim, I.-H. Lee, and K. J. Chang, *Finite temperature action-derived molecular dynamics simulations for molecular transformations of  $C_{60}$*
- **Certificate of Appreciation** in NT01 Workshop (Potsdam, 2001)
- **Best Poster Award** in 2001 KPS April Meeting (Seoul, 2001), Yong-Hyun Kim and K. J. Chang, *Coherent electron transport in carbon nanotube field effect transistors*
- **Bronze Medal** in the Korean Mathematical Olympiad, 1989

## Jiyeong Gu

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Webpage: <http://www.csulb.edu/~jgu/>



### *Education and Experience*

1993: B.S. in Physics, Seoul National University, Seoul, Korea

1995: M.S. in Physics, Seoul National University, Seoul, Korea

1998: Ph.D. in Physics, Seoul National University, Seoul, Korea

1996–98: Exchange Graduate Research Associate, Center for  
Superconductivity Research, U. of Maryland at College Park

1999–01: Postdoctoral researcher, Department of Physics and Astronomy, Center for Fundamental Materi-  
als Research and Center for Sensor Materials, Michigan State University, East Lansing

2001–04: Postdoctoral researcher, Materials Science Division, Argonne National Laboratory Argonne, IL

2004– : Assistant Professor, Dep. of Physics and Astronomy, California State University, Long Beach

### *Research Interest*

(Condensed Matter Experiment, Thin Films, Nanomagnetism, Superconductivity)

My research investigates experimentally fundamental quantum electronic and magnetic phenomena occurring in  $F$ -based hybrid systems with other materials, such as  $S/F$  hybrid system. We produce novel systems artificially in nano-structured composite materials, such as  $S/F/S$  or  $F/S/F$  trilayers,  $S/F$  multilayers, and  $S$ -films with embedded magnetic nanoclusters. Samples are fabricated as thin films using sputtering method. Even though many interesting phenomena and possible applications have been proposed for  $F/S$  system very few experimental works have been reported. Innovative approach by designing new type of materials or structures not only provides the opportunity for realization of theoretical predictions but also creates whole new phenomena possible in  $F/S$  hybrid system.

### *Honors and Societies*

1989-93: Department Honors, Seoul National University,

1995-96: “Sin-Jin” Research Fellowship, Korean Science Foundation

2000: Best Poster awards for the 14th annual CFMR (Center for Fundamental Materials Research)  
Symposium at Michigan State University

Member: American Physical Society, Material Research Society

### *Professional Service*

Referee for Physical Review Letters, Physical Review B, Applied Physics Letters, Journal of Applied Physics, and Journal of Magnetism and Magnetic Materials

#### 4. UKC2007: Call for Papers

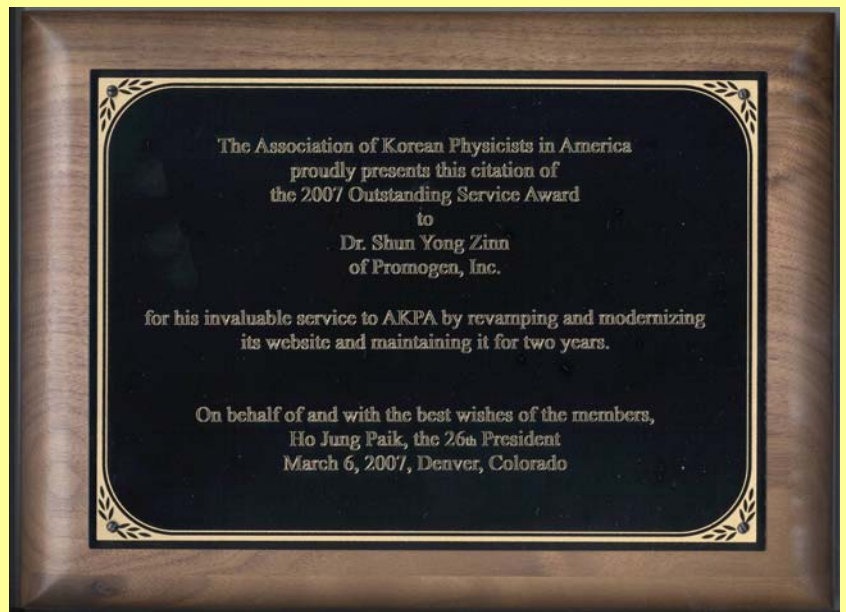
The Korean-American Scientists and Engineers Association (KSEA) has been holding an annual conference, called “US-Korea Conference on Science, Technology, and Entrepreneurship (UKC).” The main objective of UKC is to promote the US-Korea cooperation in advancing science and technology. The Korean Federation of Science and Technology Societies (KOFST) is a co-organizer. This year UKC2007 will be held on August 9-12, 2007, in Washington, DC.

Significant research findings, R&D trends, and future prospects of sciences and technologies are solicited in the areas of science and engineering, including Contemporary Basic Science. The papers reporting original work or comprehensive review of the state of the art or the future prospect in science and technology are welcome. The abstract deadline is **March 15, 2007**. This year’s physics co-chairs are Prof. Ho Jung Paik at the University of Maryland on the US side, [hpaik@umd.edu](mailto:hpaik@umd.edu), and Prof. Chul Koo Kim at Yonsei University on the Korea side, [ckkim@yonsei.ac.kr](mailto:ckkim@yonsei.ac.kr).

If you are interested in attending UKC2007 and presenting a paper on physics research, please contact one of the co-chairs immediately and/or submit your abstract before the above deadline. It is anticipated that the speakers will receive partial travel support in the form of honorarium. For more details, please visit the conference webpage: <https://www.ksea.org/ukc2007/>.

#### 5. Inaugural Outstanding Service Award

Dr. Shun-Yong (Sonny) Zinn of the University of Maryland is selected as the inaugural recipient of the newly established Outstanding Service Award of AKPA. Dr. Zinn is cited for his invaluable service to AKPA by revamping and modernizing its website and maintaining it for two years as the Chair of the E-link and Web management committee. Dr. Zinn graduated from KAIST in 1991 with a BS degree in chemistry and Ph. D. in Chemical Physics from the University of Maryland in 1997.



An amendment to the AKPA bylaws was made in December, 2006 establishing the new Outstanding Service Award. AKPA cannot operate without the dedication and hard labor of a number of volunteers, especially among the younger members of our community who volunteer valuable time and efforts in the midst of their busy lives trying to establish their career tracks. Candidates would be nominated by any officer or committee members of AKPA, and the Award Committee would occasionally select a member who has rendered truly outstanding service to the Association and recommend the recipient to the President for an Outstanding Service Award.

## 6. Dues and Contributions

**Fiscal year May 1, 2006 to April 30, 2007**

***Dues and contributions received as of February 28, 2007: \$3,080.***

### **Lifetime Membership Fee Introduced**

AKPA has introduced a lifetime membership by the recent amendment of its Bylaws. The annual membership fee for regular members is \$25. You can now pay a one-time fee of \$300 to become a lifetime member. The annual membership fee for associate members (graduate students) is \$5. Further, anybody can become a corporate/honorary member by making a contribution of \$300 or more.

You can pay your dues and/or contributions *electronically*. Please go to [www.akpa.org](http://www.akpa.org) and follow the instruction there for electronic payment. Or if you prefer, you can mail your check to our Treasurer, Professor Eun-Suk Seo at the Institute for Physical Science and Technology, University of Maryland, College Park, MD 20742.

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**Editor: Professor Moo-Young Han, Editor-in-Chief**