

ARTHUR L. SCHAWLOW

May 5, 1921 – April 28, 1999

Professor Schawlow received a Nobel Prize for Physics in 1981 for “his contribution to the development of laser spectroscopy.” He was co-author, with C.H. Townes, of the book, *Microwave Spectroscopy*, and of the first paper describing optical masers. For this latter work, the pair were awarded the Stuart Ballantine Medal by the Franklin Institute (1962), and the Thomas Young Medal and Prize by the Physical Society and Institute of Physics (1963). Prof. Schawlow was also awarded the Morris N. Liebmann Memorial Prize by the Institute of Electrical and Electronic Engineers (1964).

Other Honors Prof. Schawlow Received:

1973 – California Scientist of the Year

1977 – Third Marconi International Fellowship

1982 – Arthur L. Schawlow Award established by LIA for “outstanding contributions in the applications of lasers for science, industry, or education”

1990 – Arthur L. Schawlow Prize for Laser Science established by The American Physical Society

1991 – National Medal of Science presented by President Bush for “his role in the Conception of the laser and in advancing its applications, especially in Laser spectroscopy”

Prof. Schawlow wrote the introduction for *Scientific American Readings on Lasers and Light*, and three of the articles in that collection; he authored and co-authored nearly 200 scientific publications. He appeared on a 21st Century television program with Walter Cronkite, and on one of the Experiment Series with Don Herbert, as well as in films for Canadian, British, Japanese and German TV Networks.

About the Award

Laser Institute of America established the Arthur L. Schawlow Award to recognize individuals who have distinguished themselves by making outstanding contributions in the applications of lasers for science, industry or education. Professor Schawlow, Nobel Laureate, was a founding father of LIA (then known as Laser Industry Association), an LIA Fellow and Life Member. He retired in 1991 as Professor of Physics after thirty years at Stanford University. As the first honoree in 1982 of this award, it is fitting that LIA's highest achievement award is given in Professor Schawlow's name. The industry is indebted to him.

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31st INTERNATIONAL CONGRESS ON
APPLICATIONS OF LASERS & ELECTRO-OPTICS

LIA Annual Meeting Awards Luncheon

Honoring the 2012 Arthur L. Schawlow Award Recipient



Professor Isamu Miyamoto
Osaka University • Osaka, Japan

Arthur L. Schawlow Award
Sponsored by:



Awards Luncheon
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Wednesday, September 26, 2012
Anaheim Marriott® Hotel
Anaheim, California USA

Welcome..... Reinhart Poprawe

Annual Meeting

President's Report Reinhart Poprawe
 Treasurer's Report Yongfeng Lu
 Executive Director's Report Peter Baker
 Election Results Klaus Löffler
 Old / New Business Reinhart Poprawe
 Adjourn..... Reinhart Poprawe

Award Presentations

LIA Fellows Stephen Capp
Recipients: Stefan Kaielerle and H. C. Man
 Poster Presentation Awards Stephen Capp
 Schawlow Award Presentation Stephen Capp
 Honored Speaker Address Isamu Miyamoto

“Origin and New Wave of Laser Welding”

Conclusion..... Reinhart Poprawe

Head Table (ALPHABETICAL)

Peter Baker LIA Executive Director	Isamu Miyamoto Schawlow Award Recipient
Stephen Capp LIA Past President	Reinhart Poprawe LIA President
Klaus Löffler LIA President-Elect	Robert Thomas LIA Secretary
Yongfeng Lu LIA Treasurer	Kunhiko Washio ICALEO General Chair

*The 2012 Arthur L. Schawlow Award is presented by the
 Laser Institute of America Board of Directors to*

Professor Isamu Miyamoto

*In Recognition of his pioneering research in laser materials processing
 and his international contributions to the field.*

Whereas:

- *Prof. Miyamoto started his research work in 1965 with the development of high power CO₂ lasers. His PhD thesis at Osaka University in 1972 was one of the first on laser materials processing.*

Further:

- *Prof. Miyamoto has published over 400 papers on laser materials processing using lasers from CW to Ultrashort pulse.*

Further:

- *Prof. Miyamoto founded the Japan Laser Processing Society (JLPS) in 1978 and LPM – International Symposium of Laser Precision Microfabrication in 2000. He served as General Chair for LAMP and LPM and is currently Honorable Chair of LAMP/LPM and JLPS.*

Whereas:

- *After his retirement from Osaka University in 2004 he is actively developing novel technologies for glass welding and glass/silicon joining using ultrashort pulses at European Universities including RWTH, Tampere and Erlangen. Currently he is Emeritus Professor at Osaka University and Guest Professor at Erlangen SAOT.*

Therefore let it be known that:

- *Professor Isamu Miyamoto is a most worthy recipient of the 2012 Arthur L. Schawlow Award.*