

Some Remarks

Robert W. Boyd
M. Parker Givens Professor of Optics
The Institute of Optics
University of Rochester

Presented at the Givens Chair Celebration, April 8, 2002.

Parker,

I greatly regret that personal circumstances have prevented me from attending tonight's affair in your honor. I hope that some of my thoughts, summarized here, may be conveyed to you by surrogate.

My association with you over the years has been characterized as one of continuous learning. It's been almost 40 years since you taught me what a curl was and how to recognize a field possessing curl properties. Some of your remarkable demonstrations of apparent paradoxes in interferometry led me to further investigate the subject of coherence in some depth. I learned from you the value of reducing a complex observation to a linked sequence of simple concepts and to set this as an analytic goal in my own work.

I also learned from you that peace and serenity might be achieved through close contact with and careful observation of other animal forms. I began to learn the equanimity that derives from accepting and living life on life's terms.

Parker, I am most proud to call you a true friend and I am very glad to see this special honor and recognition bestowed upon you this evening. I hope to extend these thoughts to you directly in the very near future.

Most Sincerely
Jim Forsyth

Renee Fleming



Renee Fleming

Photo: David Seidner

Talbot's bands

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This classic experiment has been largely ignored by modern text book authors. It is worth reviewing for historical reasons and also because it provides a simple yet striking example of the role of group velocity in interferometry.

Intuitive explanation of the phase anomaly of focused light beams

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(Received 25 August 1979)

An intuitive argument is presented for the phase anomaly, that is, the 180° phase shift of a light wave in passing through a focus. The treatment is based on the geometrical properties of Gaussian light beams, and suggests a new viewpoint for understanding the origin of the phase shift. Generalizing the argument by including higher-order modes of the light field allows the case of a spherical wave to be treated.

BOYD-PARKER
TORTURE TREE AND BURIAL
MOUND. WESTERN LIMIT
SULLIVAN'S EXPEDITION
1779. SENECA VILLAGE
LITTLE BEARDS TOWN

N.Y. STATE
HISTORICAL
MARKER



THIS WAYSIDE SHRINE MARKS THE PLACE
WHERE ON SEPTEMBER 14, 1779
TWO YOUNG SOLDIERS OF THE REVOLUTION
LIEUTENANT THOMAS BOYD AND
SERGEANT MICHAEL PARKER
MET DEATH UNDAUNTED IN THE LINE
OF DUTY AFTER LINGERING TORTURE.
THEY MARKED WITH THEIR BLOOD
THE WESTERN LIMIT IN THE STATE OF
NEW YORK OF THE GREAT STRUGGLE
FOR AMERICAN FREEDOM.

ERECTED BY THE LIVINGSTON COUNTY HISTORICAL SOCIETY
AND THE STATE OF NEW YORK
SEPTEMBER 14, 1927





THE INTERNATIONAL
SOCIETY OF
ARBORICULTURE
AND THE
NATIONAL



NATIONAL
ARBORIST
ASSOCIATION

ARBORIST ASSOCIATION
JOINTLY RECOGNIZE THIS
SIGNIFICANT TREE IN THIS
BICENTENNIAL YEAR
AS HAVING LIVED HERE
DURING THE AMERICAN
REVOLUTIONARY PERIOD

1776



1976

NATIONAL ARBORIST ASSOCIATION, INTERNATIONAL SOCIETY OF ARBORICULTURE

Where is Prof. Emil Wolf?



CIRCLE



PRIVATE RANCH

Intrigue of optical physics

Why Interest in Quantum and NLO Imaging?

Rochester is the self-designated:

“imaging capital of the world.”

Why Interest in Quantum and NLO Imaging?

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Dr. Nicholas George,
Wilson Professor of Electronic Imaging

Why Interest in Quantum and NLO Imaging?

Rochester is the self-designated:

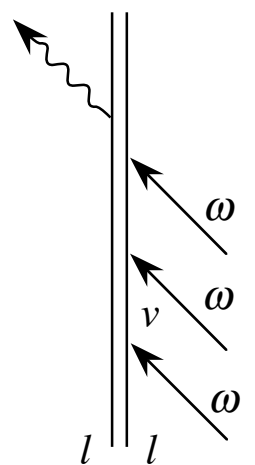
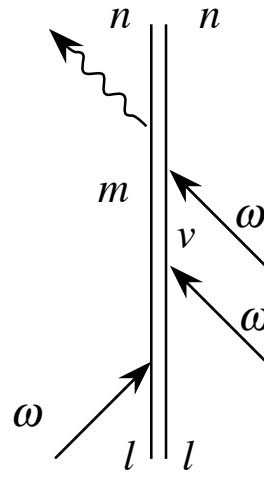
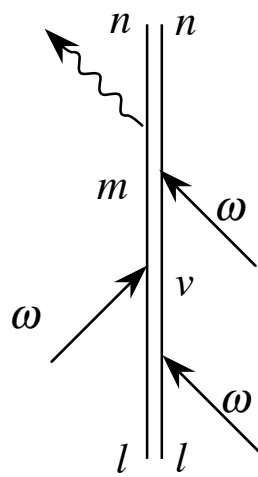
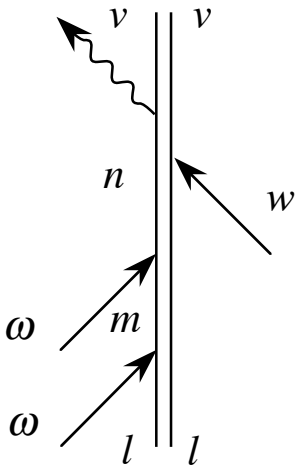
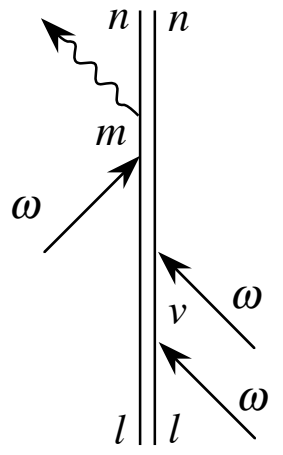
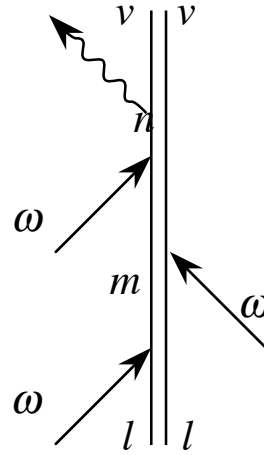
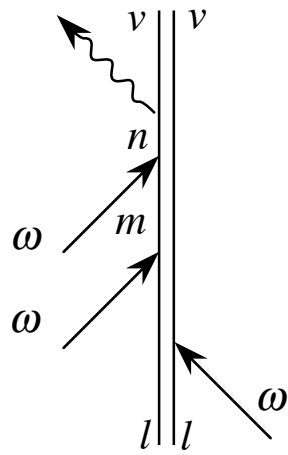
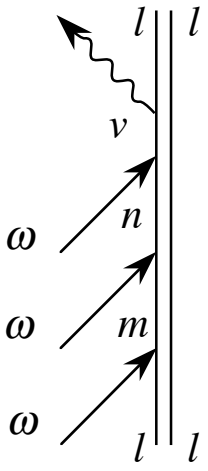
“imaging capital of the world.”

(Imogene?)



**Sid Caesar and
Imogene Coca in 1953**

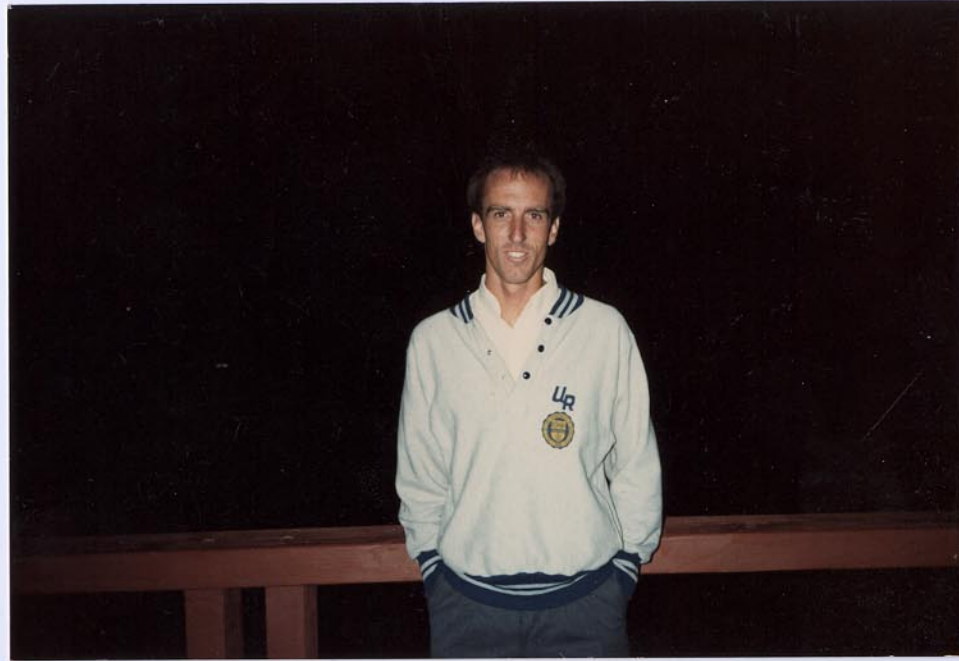
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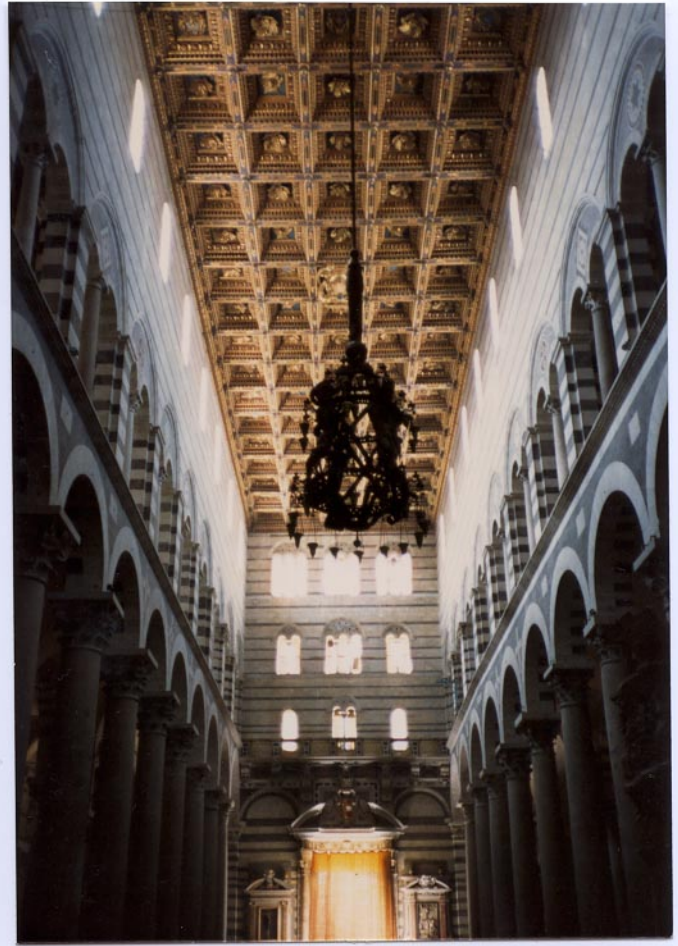
Il Ciocco

Mark Kramer in Albuquerque



Hyderabad





Pisa



Kurt Oughstun and Paul Narum in Lillehammer



SUSSP, 1995
St. Andrews

NLO Materials



Val Thorens 1996

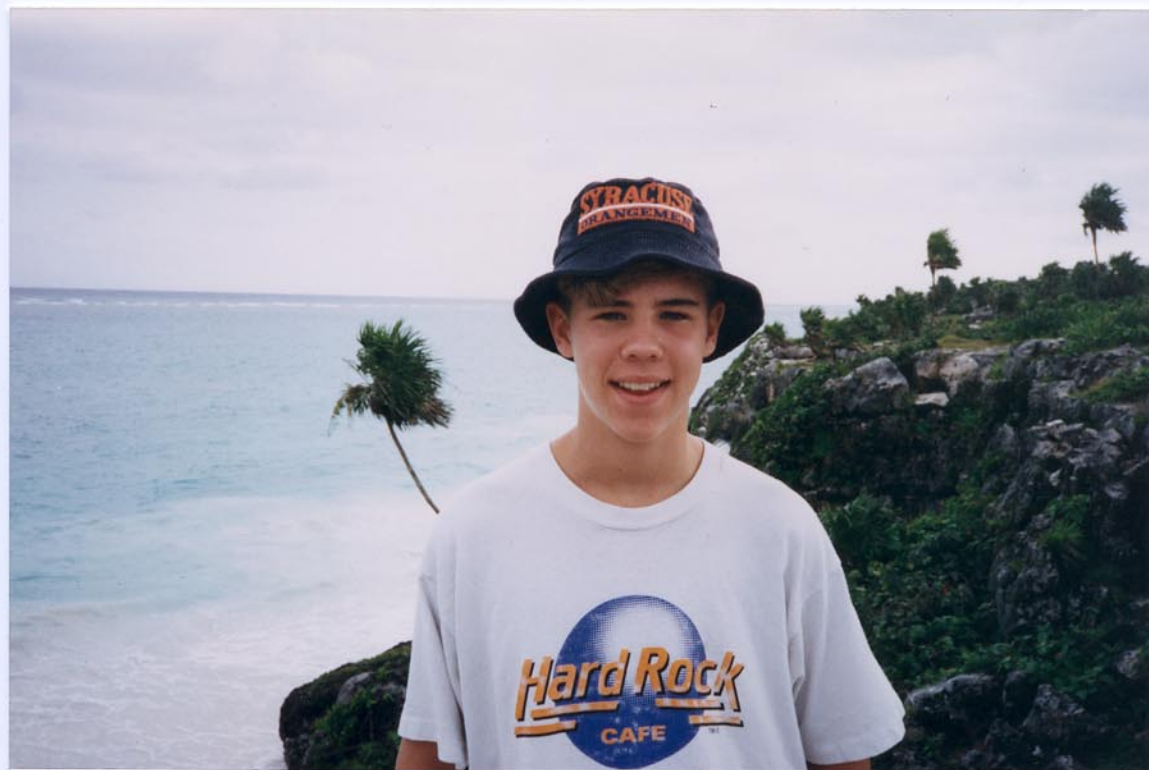


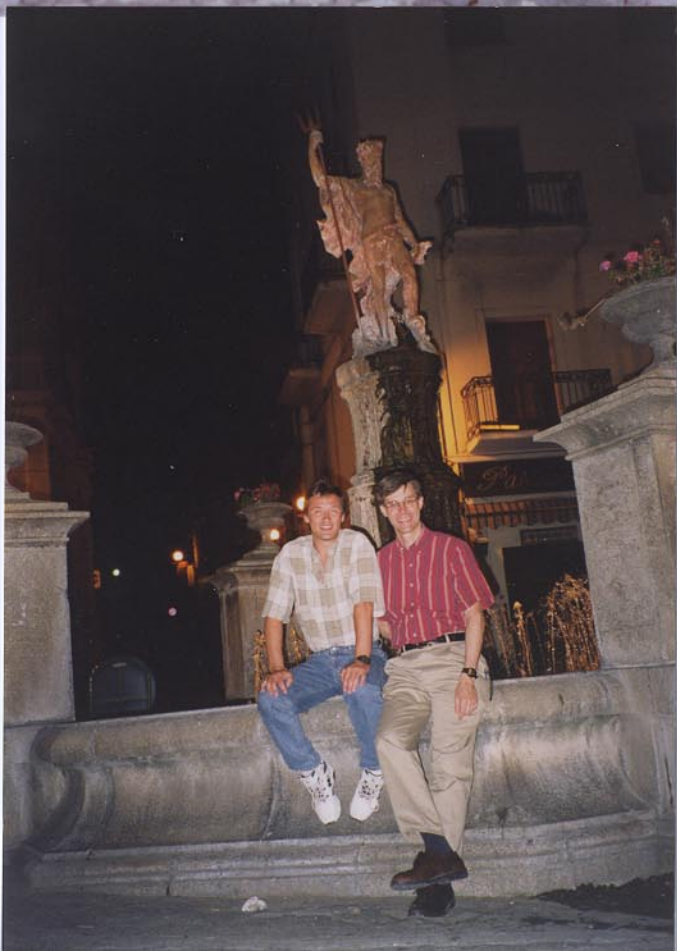


George Fischer

**NLO of
Polymers**

**Cancun,
Mexico**





**NOMA,
Cetraro, Italy
1997**

Krakow, Poland



FRISNO
1998



Journal of Modern Optics



Thank you!

THE END