

Christopher B. Zachary, MBBS FRCP

Curriculum Vitae

Position: **Health Sciences Clinical Professor and Chair**
Department of Dermatology
School of Medicine
University of California, Irvine

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GRADUATE TRAINING

1968 – 1974 **MBBS** - Royal Free Hospital School of Medicine, University of London, London, United Kingdom

1975 – 1979 **MRCP** - Royal College of Physician, University of London, London, United Kingdom

POSTGRADUATE TRAINING

February 1980 – June 1985 **Residency**, St. John's Hospital, Institute of Dermatology, University of London

July 1985 – June 1986 **Fellowship**, Cutaneous Surgery, Department of Dermatology, University of Michigan, Ann Arbor, MI

July 1986 – April 1987 **Senior Registrar and Tutor**, Cutaneous and Laser Surgery, St. John's Hospital for Disease of the Skin University of London, London, United Kingdom

June 1987 – July 1988 **Fellowship**, Molecular Biology Laboratory
Department of Dermatology
Washington University, St. Louis, Missouri

CERTIFICATION

1974 LRCP, MRCS, MBBS, ECFMG

1979 MRCP (UK) Internal Medicine, Royal College of Physicians (UK Board equivalent)

1985 Accreditation in Dermatology, Royal College of Physicians (UK Board equivalent)

1986 FLEX

1988 FMGEMS

1994 FRCP

LICENSURE

1988 Michigan (not current)
1992 Minnesota (not current)
1997 California

PRINCIPAL POSITIONS HELD

July 1988 – Aug. 1997 Associate Professor (with tenure),
Department of Dermatology, Director, Cutaneous Surgery and
Laser Center, University of Minnesota, Minneapolis

Sept. 1997 – June 2005 HS Clinical Professor, Step 3
Co-Director, Dermatologic Surgery and Laser Center
Department of Dermatology
University of California, San Francisco

June 2005 – present Department Chairman
HS Clinical Professor
Department of Dermatology
University of California, Irvine

HONORS AND AWARDS

2011 ASDS Teaching Award for Excellence, Washington DC

2011 Honorary President, Anti Aging World Congress, Monaco

2009 [Leon Goldman Memorial Award, American Society for Laser Medicine and Surgery](#)

2009 [Sturge-Weber Foundation honoree](#)

2009 [Harold O Perry Lectureship, Noah Worcester Society](#)

2008 Fellow, American Society for Laser Medicine & Surgery (ASLMS)

2008 “America’s Top Dermatologists” Consumers’ Research Council of America

1997 – 2008 Best Doctors in America, (nine years, non-consecutive)

2006 Laser Barcelona: for Advances in Laser Surgery

1984/86 Professorial Research Prize, Institute of Dermatology, University of London

1983 Montgomery Award: American Society for Dermatopathology

CLINICAL AND PROFESSIONAL ACTIVITIES

2008 – present Medical Director, Dermatology Clinical Research Center, UCI

2005 – present Health Sciences Clinical Professor and Chair, Department of Dermatology, UC Irvine
2005 – present Director of Dermatologic Surgery, The Dermatology Center, UCI.
2000 – 2001 President, Association of Academic Dermatologic Surgeons
1997 – 2005 Co-Director, Dermatologic Surgery and Laser Center, Department of Dermatology,
University of California, San Francisco

CURRENT RESEARCH

Photonics and energy based treatment devices.

2005 – 2009 Series of long term IRB approved projects in Yorkshire pig models and human subjects performed animal labs in Mountain View, and at the UCI Dermatology Clinical Research Center respectively.

- use of radiofrequency to cause specific dermal and subcutaneous fat heating;
- development of repetitive cryolipolysis techniques for subcutaneous fat reduction
- fractionated non-ablative 1550 nm and CO2 ablative laser techniques for skin tightening, and acne scar reduction.

These have resulted in multiple publications, presentations and other academic recognition. Further, this research has resulted in the introduction of new devices used worldwide in the treatment of scarring, skin tightening, skin cancer prevention, improvement in dermatoheliosis.

Development of new treatments for psoriasis and acne.

2008 **Principal Investigator**, “Effects of 4HBAP (0.10%) Lotion in Acne Vulgaris,” Sponsor: Senetek PLC

2008 **Principal Investigator**, “A multicenter open-label continuation study in moderate to severe chronic plaque psoriasis subjects who completed a preceding psoriasis clinical study with Adalimumab,” Protocol Number: M03-658, Sponsor: Abbott Laboratories

2008 **Principal Investigator**, “A phase 3, multicenter, randomized, double-blind, placebo-controlled study comparing the safety and efficacy of two dosing regimens of ABT-874 to placebo in subjects with moderate to severe chronic plaque psoriasis,” Protocol Number: M06-890, Sponsor: Abbott Laboratories

2008 **Principal Investigator**, “A phase 3, multicenter, open-label continuation study in moderate to severe chronic plaque psoriasis subjects who completed a preceding psoriasis study with ABT-874,” Sponsor: Abbott Laboratories

2008 **Principal Investigator**, “A phase 3, multicenter, randomized, double-blind, placebo-controlled study comparing the efficacy and safety of ABT-874 to etanercept and placebo in subjects with moderate to severe chronic plaque psoriasis,” Sponsor: Abbott Laboratories

2008 **Principal Investigator**, “Observational post-marketing safety surveillance registry of Enbrel (etanercept) for treatment of psoriasis,” Sponsor: Immunex, Inc.

- 2008 **Principal Investigator**, “Protocol for the post-approval study of Artefill for correction of nasolabial folds,” Protocol Number: 521-01, Sponsor: Artes Medical, Inc.
- 2008 **Principal Investigator**, “A multicenter international observational study of the long-term safety of Infliximab (Remicade); Results: Remicade safety under long-term study,” Sponsor: Centocor, Inc.
- 2008 **Principal Investigator**, “A multicenter, double-blind, placebo-controlled, dose-ranging study to assess the efficacy and safety of Doxercalciferol capsules in the treatment of subjects with moderate to severe chronic plaque psoriasis,” Sponsor: Genzyme Corporation.
- 2008 **Principal Investigator**, “Phase 2a randomized, double-blind, vehicle-controlled, intra-individual comparison trial assessing safety, toleration, pharmacokinetics and pilot efficacy of 4 weeks treatment with topical CP-690, 550 in chronic plaque psoriasis,” Protocol Number: A3921038, Sponsor: Pfizer
- 2008 **Principal Investigator**, “Effects of PRK 124 (0.125%) lotion in acne rosacea,” Sponsor: Senetek
- 2009 **Principal Investigator**, “A randomized, evaluator-blinded, parallel group comparison of photodynamic therapy with Levulan® topical solution + blue light versus Levulan® topical solution + blue light for the treatment of actinic keratoses and reduction of new non-melanoma skin cancer on the scalp or both forearms in organ transplant recipients: Sponsor: DUSA Pharmaceuticals, Inc..
- 2009 **Principal Investigator**, “A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Adding Methotrexate to Etanercept in Subjects With Moderate to Severe Plaque Psoriasis” Amgen Protocol Number 20070559 Sponsor: Immunex Corporation
- 2010 **Principal Investigator**, “A Randomized Study to Evaluate the Efficacy and Safety of Adding Topical Therapy to Etanercept in Subjects with Moderate to Severe Plaque Psoriasis” Amgen Protocol Number 20080470 Sponsor: Immunex Corporation

CURRENT TEACHING RESPONSIBILITIES

- 2008 Mentor, Academic Dermatology Leadership Program (ADLP), American Academy of Dermatology
- 2008 Preceptor, American Society for Dermatologic Surgery
- 2005 – present Major teaching and administrative role within national and international organizations including the AAD (American Academy of Dermatology), ASDS (American Society for Dermatologic Surgery), ASLMS (American Society for Laser Medicine and Surgery), IMCAS (International Master Course on Aging Skin), ACMS (American College of Mohs Surgery), SDEF (Skin Disease Education Foundation). This involves me organizing, planning, and directing these courses or symposia.

2002 – present Developer of www.mdlive.net training program for dermatology residents nation and world-wide. Over 500 lectures viewed per month from over 100 countries. Program includes Basic Science, Dermatopathology, Dermatological Surgery, General Dermatology, Grand Rounds, Lasers and Cosmetic Surgery, and Specialty Forums. I am in the process of bringing these programs into the UC Irvine SOM.

TRAINING OF ACGME SURGERY FELLOWS

Since the early 1990s, I have been responsible for the training of numerous dermatological surgery fellows many of whom now have their own training programs in Europe, Australia, and in the USA. Training occurred through literature review, formal didactic sessions, observation, performance, and teaching procedural techniques. During their fellowships, board certified trainees became experts in a full range of procedures, such as Mohs micrographic surgery, dermatopathology and immune-histochemistry, reconstructive surgery, laser surgery (Q switched lasers, KTP, Er:YAG, CO₂, pulsed dye, diode, intense pulsed light, hair removal systems, fractionated non-ablative and ablative lasers, and radiofrequency dermal and fat manipulation), varicose vein techniques (sclerotherapy, ambulatory phlebectomy, laser and RF endovenous techniques), and cosmetic surgical procedures such as soft tissue augmentation, liposuction, scar revision, botulinum toxin, chemical peeling, dermabrasion, and so forth. I committed in excess of 1500 hours annually to this fellowship program. This year, I have started a new procedural dermatology fellowship jointly sponsored by UCI and Kaiser Permanente. This will become ACGME accredited this year, and is already very popular.

GRANTS and AWARDS

Awarded 2008/9

Title: Graduate student fellowship fund, awarded to the department of dermatology

Funding Agency: Allergan Foundation

Amount: \$500,000

Awarded 1993 – 1994

Title: Reproduction of basal cell carcinoma (BCC) in nude mice.

Funding Agency: Minnesota Medical Foundation

Amount: \$6,500

Title: Novel Techniques for Culturing Basal Cell Carcinoma

Funding Agency: The Dermatology Foundation: ASDS

Amount: \$10,000

HOSPITAL AND UNIVERSITY COMMITTEES

2005-2011 Member UCI Industry Relations Committee

2005 – present Member Vice Chancellor's Advisory Board, UC Irvine

Member, Council of Clinical Chairs

Member, Medical Executive Board, UC Irvine Medical Center

University Physicians and Surgeons Board, and Executive Council

- Member, UCIUPS Business Development Committee
- 2005 – 2007 Member, Credentials Committee
- 1992 – 1997 Secretary, Multidisciplinary Melanoma Conference, UMHC
- 1992 – 1997 Chairman, Skin Oncology section, Cancer Center, UMHC
- 1994 – 1997 Chairman, Ambulatory Care Management and Executive Committees, UMHC
- 1996 – 1997 Medical Information Sub-Committee, UMCA
- 1996 – 1997 Member, University of Minnesota Senate
- 1996 – 1997 Member, University of Minnesota Electronic Computerized Health Care Organization Program
- 1996 – 1997 Member, University of Minnesota Telemedicine Working Group

STATE COMMITTEES

- 2006/7 Appearances before CA State Medical Board on various issues from tanning to medical practice by non physicians.
- 1993 Expert witness before MN House and Senate committees concerning legislation for treatment of patients with port wine stains
- 1993 – 1997 Member, MN Medical Advisory Subcommittee (Dermatology)

NATIONAL COMMITTEES

- 2010 ASLMS, Education, Standards and Communications Committee
- 2009 – 2010 Nominating Committee, American Society for Laser Medicine and Surgery (ASLMS)
- 2009 – 2010 Trustee of the Board of ASCDAS
- 2008 – present Board Member, [World Skin Cancer Foundation](#) – West Coast Chapter
- 2008 – 2009 Chair, Silent Auction Committee, American Society for Laser Medicine and Surgery ([ASLMS](#))
- 2007 – 2008 Member, Ethics Committee, ASLMS
- 2005 – 2009 Professional Conduct Committee American Society for Dermatologic Surgery ([ASDS](#))
- 2005 – 2008 ASDS Professional Conduct Committee

- 2001 – 2005 Board of Trustees, [Sulzberger Institution](#), American Academy of Dermatology
- 2000 – 2005 Board of Trustees, [The Immortal Chaplains Foundation](#)
- 2000 – 2003 Member, Standards of Training Committee, ASLMS
- 2000 – 2001 Chairman, Awards Committee, American Society for Dermatologic Surgery
- 2000 Chairman, Electronic Communications Committee, ASLMS
- 2000 Founder, www.mdlive.net
- 2000 – 2001 American Society for Laser Medicine and Surgery, Inc., Ethics and Conflict of Interest Committee
- 1998 – 2002 Member, Scientific Committee, European Society for Cosmetic and Aesthetic, Dermatology
- 1997 – 1998 Co-Chair, Scientific Program Committee, ACMMSCO Annual Meeting
- 1997 – 1998 Member, Dermatologic Surgery Fellowships Task Force, ASDS
- 1996 – 1999 Awards Committee, ASDS
- 1996 – 1999 Board Member, Association of Academic Dermatologic Surgeons
- 1996 Member, Video Needs and Development Task Force, ASDS
- 1996 Member, T/F on Cost Effectiveness Committee, ACMMSCO
- 1996 Member, Communications and Public Relations Committee, ACMMSCO
- 1994 – 1996 Co-Director, Office Management Committee, ASDS
- 1994 – 1997 Office Accreditation/AAAHHC Committee, American Society for Dermatologic Surgery (ASDS)
- 1994 – 1997 Member, Public Relations and Marketing Committee, American College of Mohs Micrographic Surgery and Cutaneous Oncology (ACMMSCO)
- 1994 – 1997 Chairman, Managed Care Committee, ASDS
- 1993 – 1994 Member, American Academy of Dermatology Task Force on Cutaneous Surgery
- 1992 – 1994 Member, Advisory Council to International Society for Digital Imaging of Skin (ISDIS)

EDITORIAL BOARDS

2007 – Present Journal of Cosmetic and Laser Therapy
2005 – Present Lasers in Surgery and Medicine
1998 – 2002 Clinical and Experimental Dermatology

Periodic Reviewer

Journal of the American Academy of Dermatology
Reviewer, British Journal of Dermatology
Dermatologic Surgery
Archives of Dermatology
Greater Minnesota Corporation Technology Research Grants

1996 – 2002 Contributing Editor, Dermatologic Surgery
1994 – 1997 Editor, Colleagues Magazine, University of MN Hospital and Clinic
1995 Section Editor, Current Opinions in Dermatology

Content Reviewer

“Pearls From the Pros: Innovative Filler Applications in the Growing Aesthetic Practice.”,
StrataMed, LLC.

INVITED SPEAKER

Local

Schering Surgical Workshop, Ann Arbor, Michigan, 1985.
Slice of Life Program Series Lecture, UMHC, Minneapolis, Minnesota, March 1991.
Board of Governors, UMHC, Minnesota, July 1990.
Emmanuel/St. Joseph's Hospital CME Program, Mankato, Minnesota, July 1990.
Twin Cities Home Office Life Underwriters Spring Seminar, Bloomington, MN, May 1990.
Department of Dermatology, Grand Rounds, Gunderson Clinic, April 1991.
Changing Concepts in Medicine, School of Dentistry, UMHC, October 1991.
Department of Pediatrics, Methodist Hospital, Minneapolis, Minnesota, May 1992.
Health Services Group, UMHC, Minnesota, May 1992.
Neuro/Oorbit/Ociculoplastic Conference, UMHC, June 1992.
Minneapolis Children's Medical Center Grand Rounds, July 1993.
Otolaryngology Evening Conference UMHC, Minnesota, 30 November 1993.

Lasers in Otolaryngology: Beyond the Basics, UMHC, Minnesota, 1993.
Noon Housestaff Conference, UMHC, 22 February 1994.
Cancer Center Conference, UMHC, 24 March 1994.
John Muir Medical Center, Walnut Creek, California, October 1997.
Santa Rosa Memorial Hospital, Santa Rosa, California, April 1999.
New Directions in Cosmetic Enhancements, Burlingame, California, 2000.
Providence Holy Cross Medical Center, Mission Hills, California, February 2006.
Orange Coast Memorial Medical Center, Fountain Valley, California, March 2006.
University of California, Davis, California, October 2006.
Valley Dermatological Medical Group, Tarzana, California, September 2007.
University Health Systems Seminar, San Antonio, Texas, October 2007.
Research Associates Luncheon, University of California – Irvine, April 2008.
UC Irvine Chief Executive Roundtable, Santa Barbara, California, May 2008.
Frontiers in Biomedical Devices Conference, Irvine, California, June 2008.
StrataMed “Setting Up Aesthetic Success: Hand-On Injector Training” residency program series. La Jolla, California, December 2009
University of California, Irvine, Department of Otolaryngology – Head & Neck Surgery, “The Science of Aesthetic Lasers in Surgery”, March 2012.

State

Oregon Health Sciences University. Portland, Oregon. May 1986.
Kentucky Dermatologic Society Meeting, Louisville, Kentucky, 1986.
Michigan Dermatological Society, Ann Arbor, Michigan, 1986.
Department of Pediatrics, Grand Rounds, UMHC, Minneapolis, Minnesota, March 1991.
Minnesota Derm Society Quarterly meeting. February 1990.
Family Practice Review: Update 1991, Minneapolis, Minnesota, April 1991, 1992.
Minnesota Dermatologic Society, UMHC, May 1996.
Pacific Dermatologic Association: Lasers, Lies and Videotape, San Francisco, California, September 1998.
The Skin from A to Z, San Francisco, California, 1998.
California Academy of Cosmetic Surgery: Lasers and Facial Rejuvenation, Palm Desert, California, 2000.
New Directions in Cosmetic Enhancements, Indianapolis, Indiana, 2000.
Current Concepts in Facial Rejuvenation, Knoxville, Tennessee, 2000.
Current Concepts in Facial Rejuvenation, Jacksonville, Florida, 2000.
New Directions in Cosmetic Enhancements, Las Vegas, Nevada, 2000.

New Directions in Cosmetic Enhancements, Newport Beach, California, 2000.
New Directions in Cosmetic Enhancements, Portland, Oregon, 2000.
Facial Aesthetic Enhancements Educational Initiative, Chicago, Illinois, 2001.
San Diego Dermatological Society, San Diego, California, 2001.
University of Utah, Health Sciences Center, Salt Lake City, Utah, November 2005.
Elective Ophthalmic & Skin Rejuvenation Procedures, Newport Beach, California, 2005.
A Day of Women's Health, Crystal Cathedral, Garden Grove, California, October 2006.
San Diego Society for Dermatologic Surgery, Del Mar, California, January 2008.
Utah Dermatology Society, Moab, Utah, April 2008.
University of Ottawa Clinic/Sci Derm, Ottawa, Canada, April 2010.
Technology Innovation in Plastic Surgery, San Francisco, California, May 2010.
Florida Society of Dermatologists, Miami, Florida, May 2010
Coastal Dermatology Symposium, San Diego, CA September 2010
Iowa University, July, 2011

National

Dermatology Nurses Association, Minneapolis, Minnesota, February 1990.
Association of Academic Dermatologic Surgeons, Chicago, Illinois, 1991.
Association of Professors of Dermatology, Chicago, Illinois, 1992.
Association of Academic Dermatologic Surgeons, Chicago, Illinois, 1993.
American Academy of Dermatology, Basic Surgery Course, 1986-1994.
Westwood Course, Hilton Head, South Carolina, 1994.
American Society of Dermatologic Surgeons, May 1995.
Association of Academic Dermatologic Surgeons, Rosemont, Illinois, 1995.
American Academy of Dermatology, New Orleans, Louisiana, 1995.
Advanced Techniques in Cutaneous & Cosmetic Lasers, Minneapolis, Minnesota, November 1996.
American Academy of Dermatology, Washington, DC, 1996.
Medical Education Resources Meeting, Orlando, Florida, 1996.
The Sixth Annual Robert J. Gorlin Conference on Dysmorphology: Angiogenesis & Vascular Anomalies. Current Treatment for Vascular Malformations, Minneapolis, Minnesota, 1996.
Advanced Techniques in Cutaneous & Cosmetic Lasers, Minneapolis, Minnesota, October 1997.
American Academy of Dermatology, San Francisco, California, 1997.
Advanced Dermatology, San Francisco, May 1998.
Academy of Dermatology, Orlando, Florida, 1998.
Society of Laser Medicine and Surgery, San Diego, California, 1998.

Minimally Invasive Cosmetic Surgery, San Francisco, California, 1998-2000.

Santa Rosa Memorial Hospital, Santa Rosa, California, April 1999.

Dermatology Update for the Millennium, San Francisco, California - UCSF, 1999.

American College of Mohs Micrographic Surgery & Cutaneous Oncology, Miami Beach, Florida, 1999.

American Academy of Dermatology, New Orleans, Louisiana, 1999.

Controversies and Conversations in Cutaneous Laser Surgery, Napa, California, 1999.

Hawaii Derm: The Skin Disease Education Foundation, Kauai, Hawaii, 1999.

Hawaii Derm: The Skin Disease Education Foundation, Maui, Hawaii, 2000.

American Society for Laser Medicine and Surgery, Reno, Nevada, 2000.

15th Dialogues in Cosmetic Dermatology, Scottsdale, Arizona, 2000.

ASDS/ACMMSCO Combined Meeting, Denver, Colorado, 2000.

Controversies and Conversations in Cutaneous Laser Surgery, Woodstock, Vermont, 2000.

Association of Professors of Dermatology/Association of Academic Dermatologic Surgeons Annual Meeting, Chicago, Illinois, 2000.

Lasers and Cutaneous Cosmetic Surgery, Minneapolis, Minnesota, 2000.

American Academy of Dermatology, San Francisco, California, 2000, 2003-5.

16th Dialogues in Cosmetic Dermatology, Walt Disney World, Florida, 2001.

American Academy of Dermatology, Summer Academy, Anaheim, California, 2001.

American Academy of Dermatology, Washington, DC, 2001.

Controversies and Conversations in Cutaneous Laser Surgery, Beaver Creek, Colorado, 2001.

25th Hawaii Dermatology Seminar, Maui, Hawaii, 2001.

American College of MOHS Micrographic Surgery & Cutaneous Oncology, Chicago, Illinois, 2002.

Fall Clinical Dermatology Conference, Las Vegas, Nevada, 2002.

Controversies and Conversations, Ojai, California, 2002.

Skin Disease Education Foundation, San Diego, California, 2002.

American Society for Laser Medicine and Surgery, Atlanta, Georgia, 2002.

American Academy of Dermatology, New Orleans, Louisiana, 2002.

26th Hawaii Dermatology Seminar, Maui, Hawaii, 2002.

American Society for Laser Medicine and Surgery, Anaheim, California, 2003.

Cosmetic Dermatology Seminar, Scottsdale, Arizona, 2003.

27th Hawaii Dermatology Seminar, Maui, Hawaii, 2003.

Cosmetic Dermatology Seminar, Anaheim, California, May 2005.

American Society for Dermatologic Surgery & American College of Mohs Micrographic Surgery and Cutaneous Oncology, Atlanta, Georgia, October 2005.

Skin Disease Education Foundation, Kauai, Hawaii, February 2006.

American Society for Laser Medicine and Surgery, Boston, Massachusetts, April 2006.

Skin Disease Education Foundation, Phoenix, Arizona, May 2006.

Controversies and Conversations in Cosmetic Dermatology, Carlsbad, California, August 2006.

Harvard Medical School Laser Course, Boston, Massachusetts, September 2006.

American Academy of Dermatologic Surgeons Annual Meeting, Chicago, Illinois, September 2006.

American Society of Dermatologic Surgeons Meeting, Palm Desert, California, October 2006.

31st Hawaii Dermatology Seminar, Maui, Hawaii, March 2007.

Skin Disease Education Foundation's Women and Pediatric Dermatology Seminar 2007, San Francisco, California, September 2007.

American Society of Dermatologic Surgery Annual Meeting, Chicago, Illinois, October 2007.

American Society for Laser Medicine and Surgery Annual Meeting, Dallas, Texas, 2007.

Facial Aesthetic Scientific Advisory Board Meeting, New York, New York, November 2007.

66th Annual Meeting of the American Academy of Dermatology, San Antonio, Texas, February 2008.

The 2008 South Beach Symposium, Miami, Florida, February 2008.

Hawaii Dermatology Seminar, Waikoloa, Hawaii, March 2008.

Association of Dermatology Administrators/Managers 17th Annual Meeting, San Francisco, California, March 6, 2008.

American Society for Laser Medicine and Surgery Annual Meeting, Kissimmee, Florida, April 2008.

Cosmetic Dermatology Seminar 2008, Santa Monica, California, June 2008.

American Academy of Dermatology, Practical Approaches to Patient Problems, San Francisco, California, August 23-24, 2008.

Skin Disease Education Foundation, Women's & Pediatric Dermatology Seminar 2008, San Francisco, California, September 19-21, 2008.

Harvard Medical School, Laser & Aesthetic Skin Therapy, Boston, Massachusetts, October 10-12, 2008.

American Academy of Dermatology Advanced Laser Symposium, San Francisco, California, March 6, 2009.

ASLMS 29th Annual Conference, National Harbor, Maryland, March 29, 2009.

Controversies and Conversations in Laser and Cosmetic Surgery, Carlsbad, California, August, 2009.

American Society for Dermatologic Surgery, Phoenix, Arizona, October 2009.

Harvard Laser & Aesthetic Skin Therapy, Boston, Massachusetts, October 2009

Developing Leaders in Aesthetic Medicine, New York, New York, November 6, 2009.

SDEF, Las Vegas, NV, November 18, 2009.

Mount Sinai Winter Symposium, New York, New York, December 11, 2009.

Hawaii Dermatology Seminar, Waikoloa, Hawaii, February 14, 2010.

BioForm Consultant Conference, Miami, Florida, February 26, 2010.

68th Annual Meeting of the American Academy of Dermatology, Miami, Florida, March 5, 2010.

ASLMS Annual Meeting, Phoenix, AZ, April 2010

Cosmetic Dermatology Seminar, Santa Monica, California, May 13, 2010.
Controversies and Conversations in Laser and Cosmetic Surgery, Carlsbad, California, August 2010
Aesthetic Extender Symposium, Miami, Florida, October 8, 2010.
Harvard Laser and Aesthetic Skin Therapy, Boston, Massachusetts, October 2010
Pacific Dermatologic Association, 62nd Annual Meeting, Pasadena, CA August 2010.
Hawaii Dermatology Seminar, Waikoloa, Hawaii, March 2011
American Society for Laser Medicine and Surgery, Grapevine, Texas, March 2011.
Summit for Aesthetic Medicine, Dana Point, California, June 2011
Controversies and Conversations in Laser and Cosmetic Surgery, Asheville, North Carolina, August 2011
2011 ADA, Napa Valley, California, September 2011
Harvard Laser & Aesthetic Skin Therapy, Boston, Massachusetts, October 2011
ASDS, Washington D.C., November 2011
Hawaii Derm, Waikoloa, Hawaii, February 2012
American Society for Laser Medicine and Surgery, Kissimmee, Florida, April 2012

International

Immunodermatology Symposium, London, England, 1983.
Isle of Wight Postgraduate Medical Federation lecture. England, November 1984.
Second International Symposium on Atopic Dermatitis, Loen, Norway, 1984.
Fifth CIRD Symposium, Nice, France, 1984.
British Derm. Surgery Group Workshop, Newcastle, England 1985.
Collagen Workshop, Madrid/Barcelona, Spain, 1986.
International Society for Dermatological Surgery, London, England, 1986.
Department of Dermatology, London Hospital, London, England, September 1986.
13th Congress Esthetique et Chirurgie Dermatologique, Paris, France, 1986.
Institute of Dermatology, St John's Hospital, London, England, November 1986.
Superficial Anatomy and Advanced Surgery Laser Course, San Diego, California, 1986.
Institute of Urology. London, England, January 1987.
Section of Dermatology, Royal College of Medicine, London. February 1987.
Fifth Annual Course for Consultants and Skin Physicians, United Kingdom, February 1987.
Society for Beautitherapists. Royal Society of Medicine, United Kingdom, March 1987.
Department of Surgery. Middlesex Hospital, London, England, March 1987.
Department of Radiotherapy. Middlesex Hospital, London, England, April 1987.
British Dermatological Surgery Group Annual Workshop. Oxford, England, April 1987.
Department of Dermatology, Bristol Royal Infirmary, England, October 1989.

Dermatology in the Year 2000, London, England, 1990.

World Congress of Dermatology, June 1992.

International Society for Digital Imaging of Skin, San Francisco, California, 1992.

Southwest England and Wales Dermatology Society, Wales, 1992.

Winter Surgical Meeting, Mount Buller, Victoria, Australia, 1994.

Korean Society for Dermatology, Seoul, Korea, 1995.

Tokyo University, Tokyo, Japan, 1995.

British Association of Dermatology, Bournemouth, England, 1996.

Dague Dermatology Society, Korea, 1996.

ISAS International Symposium on Aging Skin, Paris, France, 1996.

19th World Congress of Dermatology, Chairman, Sydney, Australia, 1997.

European Society for Cosmetic and Aesthetic Dermatology, Nice, France, 1998.

5th Annual Course on Lasers in Cutaneous and Cosmetic Surgery. London, England, 2000.

Australasian College of Dermatologists Annual Scientific Meeting, Sydney, Australia, 2000.

2000 World Congress: Skin Resurfacing & Soft Tissue Augmentation. Vancouver, Canada, 2000.

Westwood Squibb Fall Conference on Clinical Dermatology, Los Cabos, Mexico, 2000.

Israeli Dermatology Society, Jerusalem, 2001.

Canadian Laser Aesthetic Surgery Society, Toronto, Canada, 2001.

Chinese Women's & Children's Foundation, China, 2002.

Simposio Apertura 2002, Buenos Aires, Argentina, 2003.

RADLA, Latin American Congress, 2006.

Botox, Fillers and More, Vancouver, Canada, 2006.

Advances and Controversies in Laser Medicine and Surgery, International Conference, Barcelona, Spain, 2006.

5th International Academy of Cosmetic Dermatology World Congress, Melbourne, Australia, 2006.

International Master Course on Aging Skin, Paris, France, January 2007.

International Master Course on Aging Skin, Paris, France, January 2008.

Canadian Dermatology Seminar, Quintana Roo, Mexico, April 2008.

7th Anti-Aging Medicine World Congress, Paris, France, April 2008.

Controversies and Conversations in Laser and Cosmetic Surgery, Whistler, British Columbia, Canada, August 8-10, 2008.

LaserInnsbruck 2008: Advances and Controversies in Laser and Aesthetic Surgery, Innsbruck, Austria, September, 2008.

2nd International Applications of High-Power Semiconductor Lasers, San Diego, CA, October, 2008.

International Master Course on Aging Skin, Paris, France, January, 2009.

5 Continent Congress: Lasers and Aesthetic Medicine, Nice, France, September, 2009.

Laser International, Riyadh, Saudi Arabia, January, 2010.
 Derm Therapy Conference, Catania, Italy, February, 2010.
 8th Annual Anti-Aging Medical World Congress, Monaco, April, 2010.
 Laser Europe, Spain, May 2010.
 Les Journees Parisiennes du laser, Paris, France, June 2010.
 LaserInnsbruck, Innsbruck, Austria, September, 2010.
 British Derm Cosmetic Group, England, November, 2010.
 Anti-Aging World Congress, Monaco, March 2011
 British Medical Laser Association Annual Meeting, United Kingdom, May 2011
 Madrid "Meet the Expert", Madrid, Spain, May 2011
 15th Annual Meeting of the European Hair Research Society, Jerusalem, Israel, July 2011
 Controversies and Conversations in Laser and Cosmetic Surgery, Grove Park, North Carolina, August 2011
 5 Continents Conference, Canne, France, September 2011
 8th World Congress of Cosmetic Dermatology, Cancun, Mexico, February 2012

NATIONAL COURSE AND CONFERENCE ADMINISTRATION EXPERIENCE

1982 Immunodermatology Symposium. Guy's Hospital, London, England
 1990 Lasers in Cutaneous Surgery. Course Director, UMHC Minneapolis, Minnesota
 1991 Symposium on Facial Malignancy, Course Director, University of Minnesota
 1994 Quality Assurance, Quality Control, Course Director, Breakfast Session, AAD Meeting
 1994 Lasers in Cutaneous and Cosmetic Surgery, Course Director, Hilton Head, South Carolina
 1995 Carbon Dioxide Laser Resurfacing, Course Director, UMHC Minneapolis, Minnesota
 1996 Program Director, American College of Mohs Micrographic Surgery and Cutaneous Oncology (ACMMSO), Palm Desert, California
 1996 – 00 Lasers in Cutaneous and Cosmetic Surgery, Course Director, San Francisco, Minneapolis, London
 2000 The 4th Annual Minimally Invasive Aesthetic Surgery: A Multidisciplinary Course on Office-Based Aesthetic Patient Care November 9-12
 2006 American Society for Lasers in Surgery and Medicine, Boston, Program Chair
 2006 Understanding Intense Pulsed Light, Course Director, AAD Annual Winter Meeting, Washington, DC
 2006 Light Emitting Diode: Assessing the Evidence, Course Director, AAD Annual Winter Meeting, Washington, DC.

- 2006 Plasmakinetic Resurfacing: Why this works, Course Director, AAD Annual Winter Meeting, Washington, DC
- 2006 Non-ablative Fractionated Devices: Selectivity in the Delivery of Laser Energy, Course Director, AAD Annual Winter Meeting, Washington DC
- 2006 Reconsidering Ablative Rejuvenation, Course Director, AAD Annual Winter Meeting, Washington, DC
- 2006 Fat Buster: Shaping Your World for the Future, Course Director, AAD Annual Winter Meeting, Washington, DC
- 2006 Laser Pearls Forum 552, Course Director, AAD Annual Winter Meeting, Washington DC
- 2004 – 07 Lasers in Aesthetic Surgery. Course Director. AAD annual meetings
- 2003 – 11 Annual Cosmetic Dermatology Symposia, Skin Disease Education Foundation
- 2005 – 11 Annual Hawaii Dermatological Symposia, Skin Disease Education Foundation, Waikoloa, Hawaii
- 2005 – 10 Annual Women’s & Pediatric Symposia, Skin Disease Education Foundation
- 2005 – 11 Annual Las Vegas Derm, Skin Disease Education Foundation

INVITED PARTICIPANT IN RADIO/TELEVISION BROADCASTS

Radio

"Does He take Sugar"	Radio 4	1985
"Tuesday Call"	Radio 4	1985
"You and Yours"	Radio 4	1985
"British Forces Broadcasting Services"	BFBS	1985
"Healthwatch"	Capitol Radio	1987
"Helen Fructman Show"	KALW	1999
ABC, CBC national radio interview		2004

Television

"Health Talk and You"	Channel 17	1989, 91, 92, 93, 94, 95
Numerous Interviews for News Features	Local TV	1989-1996
<u>CNN</u>		2004
Hurst TV		2004
ABC San Francisco News		2005
<u>Today Show</u>		2008
Channel 5 News – Zeltiq		2010
Nationwide TV – AP Cryolysis		2010

VIDEO AND AUDIO TAPE

Dermatology Dialogues “Closure Materials,” 1989.

Dermatology Dialogues “Local Anesthetic Allergy,” 1990.

“A Reflective Retrospective: Dermatologic Surgery,” Practical Reviews in Dermatology, March/April 1998, Vol. 10, no. 2.

PROFESSIONAL ORGANIZATION MEMBERSHIPS

British Medical Association	1974
Royal College of Physicians, London	1979
Dowling Club	1980
European Society for Dermatological Research	1981
British Society for Dermatopathology	1982
St. John's Hospital Dermatological Society	1982
British Society for Investigative Dermatology	1982
Royal Society of Medicine	1983
British Dermatological Surgery Group	1984
International Society for Dermatologic Surgery	1986
Minnesota Dermatological Society	1988
American Society for Dermatologic Surgery	1989
American Society for Mohs Micrographic Surgery and Cutaneous Oncology	1989
Society of Investigative Dermatology	1992
American Academy of Dermatology	1992
University of Minnesota Cancer Center	1994
Association of Academic Dermatologic Surgeons	1994
European Society for Cosmetic and Aesthetic Dermatology	1998
American Society Laser Medicine and Surgery	2001-present
American Society of Cosmetic Dermatology & Aesthetic Surgery	2009
American Dermatology Association	2010
Cal Derm	2010
OC Derm	2010-present
Association of Professors of Dermatology	2010
American Medical Association	2011

CASES PRESENTED AT MEETINGS

- 1981 "Pityriasis Lichenoides Acuta Associated with Gross Vasculitic Changes"
St. John's Hospital Dermatological Society
- Nov 81 "Erythromelalgia"
St. John's Hospital Dermatological Society
- Dec 81 "Hand-Schuller-Christian Disease, with secondary cutaneous involvement"
Clinicopathological Conference, Royal Society of Medicine
- Jan 82 "Behcets Disease with severe neurological and thrombotic complications"
Royal Society of Medicine
- Nov 82 "Blue rubber bleb nevus syndrome"
Royal Society of Medicine
- Nov 82 "Centrifugal lipodystrophy"
Royal Society of Medicine
- Dec 82 "Amiodarone photosensitivity and pigmentation"
Clinicopathological conference, Royal Society of Medicine
- May 83 "An unusual presentation of Mycosis Fungoides"
St. John's Hospital Dermatological Society
- May 83 "Chronic Protothecosis eyebrow infection"
St. John's Hospital Dermatological Society
- Oct 83 "Acral Darier's Disease"
Royal Society of Medicine
- Nov 84 "Hyper IgE Syndrome" (Job's Syndrome)
St. John's Hospital Dermatological Society
- Feb 85 "Hansens Disease"
Royal Society of Medicine
- Feb 85 "Disseminate and Persistent Infundibula Folliculitis"
Royal Society of Medicine
- May 85 "Chronic Actinic Dermatitis"
St. John's Hospital Dermatological Society
- June 85 "Tuberculoid Leprosy-A Clinical and Immunological Study"
Grand Rounds, Hammersmith Hospital
- July 85 "Tufted Angioma"
British Association of Dermatology, London

- Feb 87 "Generalized Eruptive Keratoacanthoma"
Royal Society of Medicine
- Feb 90 "Sporotrichosis in an eight month old infant"
Minnesota Derm Quarterly Meeting, Hennepin Hosp Feb 1990
- Feb 92 "Nasal Airway Obstruction: Pitfall for the Dermatological Surgeon. A Case of CO2 Laser Treatment of Rhinophyma-+ with Airway Complication"
Minnesota Dermatology Society Meeting, UMHC
- April 92 "Blast Tattoo Injuries: Treatment of Two Cases by Dermabrasion"
Minnesota Dermatology Society Meeting, UMHC
- April 92 "Extensive Nasal Defect Repaired by Midline Forehead Flap"
Minnesota Dermatology Society Meeting, UMHC
- April 92 "Angiofibromas of Tuberous Sclerosis: Treatment by Dermabrasion"
Minnesota Dermatology Society Meeting, UMHC
- April 92 "Multiple Facial Trichoepithelioma: Treatment by Dermabrasion"
Minnesota Dermatology Society Meeting, UMHC
- April 94 "Intralesional BCG for Metastatic Melanoma"
Minnesota Dermatology Society Meeting, UMHC
- April 94 "Phakomatosis Pigmentovascularis"
Minnesota Dermatology Society Meeting, UMHC

PAPERS READ AT MEETINGS

National

"Cutaneous T cell lymphoma with dermal atrophy." American Academy of Dermatology, New Orleans, Louisiana, December 1982.

"Gastrointestinal permeability defect in atopic eczema demonstrated by differential absorption of polyethylene glycol probe molecules." What's New in Clinical Research, American Academy of Dermatology, New Orleans, Louisiana, December 1982.

"Langerhans cells and t-lymphocyte sub populations in the dermal infiltrate of atopic eczema subjects." American Society of Dermatopathology, Chicago, Illinois, November 1983.

"Centrifugal Lipodystrophy." American Academy of Dermatology, Chicago, Illinois, December 1983.

"Atopic eczema-monoclonal antibody analysis of t-lymphocyte sub populations in tissue sections." American Academy of Dermatology, Chicago, Illinois, December 1983.

"Wells Syndrome." American Academy of Dermatology, Washington, December 1984.

"Progressive lymphangioma: differential diagnosis and endothelial cell marker studies." American Society of Dermatopathology, Washington, December 1984.

"Prognostic factors in melanoma: use of elective lymph node dissection." Michigan Dermatological Society, Ann Arbor, Michigan, 1985.

"Fascinating cases from St. John's Hospital." Oregon Health Sciences University, Portland, Oregon, May 1986.

"Planning the simple excision and its variations." Kentucky Dermatological Society, Louisville Kentucky, May 1986.

"Basic skin surgery." London Hospital, London, England, September 1986.

"Malignant melanoma of the head and neck." American Academy of Otolaryngology - Head and Neck Surgery, Chicago, Illinois, September 1987.

"Closure materials in dermatologic surgery." Basic Dermatologic Surgery Course, San Antonio, Texas, December 1987.

"Dermal fibroblast binding to immunoabsorbed collagenase." Society for Investigative Dermatology, Washington, May 1988.

"British experience with CO2 laser ablation for persistent viral warts." American Academy of Dermatology. Washington, December 1988.

"Closure materials." American Academy of Dermatology, Washington, December 1988.

"Post-fixation study to improve tumor definition in Mohs surgery." Summer meeting American Academy of Dermatology, San Diego, California, 1989.

"Angiolymphoid hyperplasia with eosinophilia." American Academy of Dermatology, San Francisco, California, 1989.

"Surgery of benign skin disease." Basic Dermatologic Surgery Course, American Academy of Dermatology, San Francisco, California, December 1989.

"Skin testing and challenge in patients with suspected allergy to local anesthetics." American Society for Dermatologic Surgery, Hawaii, February 1990.

"Post-fixation of cryostat sections improves tumor definition in Mohs surgery." American Society for Dermatologic Surgery, Hawaii, February 1990.

"Amiodarone pigmentation and photosensitivity." Minnesota Derm Quarterly meeting, Minneapolis, Minnesota, February 1990.

"Skin testing and challenge for the Caine sensitive individual." Minnesota Derm Quarterly Meeting. Minneapolis, Minnesota, February 1990.

"The surgery of skin disease." Current Topics in Dermatology Nursing, Dermatology Nurses Association, Minneapolis, Minnesota, February 1990.

"The treatment of cutaneous vascular malformations." Pediatric Grand Rounds, University of Minnesota Hospital and Clinic, Minneapolis, Minnesota, March 1990.

"Toluidine blue and post-fixation methods in Mohs micrographic surgery." American Society for Mohs Micrographic Surgery and Cutaneous Oncology, Chicago, Illinois, April 1990.

"Soft tissue laser surgery." Lasers in Cutaneous Surgery Course, Minneapolis, April 1990.

"Treatment and prognosis of skin cancer." Twin Cities Home Office Life Underwriters Spring Seminar, Bloomington, Minnesota, May 1990.

"Cutaneous surgery as it relates to health care policy, research, and care advancements." Board of Governors, UMHC, Minneapolis, Minnesota, July 1990.

"Skin cancer: its presentation, diagnosis, and treatment." Emmanuel/St. Joseph's Hospital CME

Program, Mankato, Minnesota, July 1990.

"Surgery of benign skin disease." American Academy of Dermatology, Atlanta, Georgia, December 1990.

"A wrinkle in time." Slice of Life Program Series Lecture, UMHC, Minneapolis, Minnesota, March 1991.

"Cutaneous surgery in the 90's." Department of Dermatology Grand Rounds, Gunderson Clinic, Minnesota, April 1991.

"Surgical treatment of benign skin disease." Family Practice Review: Update 1991, Minneapolis, Minnesota, April 1991

"Hypoplastic Klippel-Trenaunay variant: two cases." Society of Pediatric Dermatology Meeting, Williamsburg, Virginia, May 1991.

"Hypoplastic Klippel-Trenaunay Variant: two cases." Society for Pediatric Dermatology Meeting. Williamsburg, Virginia, July 1991.

"Planning surgical space in the academic environment." Association of Academic Dermatologic Surgeons, Chicago, Illinois, September 1991.

"Lasers in dermatology." Changing Concepts in Medicine, University of Minnesota Hospital and Clinics, Minneapolis, Minnesota, October 1991.

"Surgery of benign skin disease." 50th Annual Meeting of the American Academy of Dermatology, Dallas, Texas, December, 1991.

"Nasal airways obstruction." American Society Dermatologic Surgery, Scottsdale, Arizona, March 1992.

"Surface microscopy of pigmented lesions." American Society Dermatologic Surgery, Scottsdale, Arizona, March 1992.

"CO2 laser in Hailey-Hailey Disease." American Society Dermatologic Surgery, Scottsdale, Arizona, March 1992.

"Rapid Cytokeratin stains in squamous cell carcinomas." American College of Mohs Micrographic Surgery and Cutaneous Oncology Annual Meeting, Scottsdale, Arizona, March 1992.

"Management of vascular malformations in children." Methodist Hospital, Minneapolis, Minnesota, May 1992.

"Cutaneous surgery in a university setting." Health Services Administrative Luncheon Group, University of Minnesota Hospital and Clinic, Minneapolis, Minnesota, May 1992.

"Dermatology of eyelid tumors." Neuro/Oribit/Occuloplastic Conference, University of Minnesota Hospital and Clinic, Minneapolis, Minnesota, June 1992.

"Surgery training should be provided to all dermatology residents over an extended four year program." Association of Professors of Dermatology Meeting, Chicago, Illinois, September 1992.

"Surgery of benign skin disease." 51st Annual Meeting of the American Academy of Dermatology, San Francisco, California, December 1992.

"Epiluminescence Microscopy International Society for Digital Imaging of Skin." San Francisco, California, December 1992.

"Common skin lesions in children: Recognition and surgical indications." Minneapolis Children's Medical Center Grand Rounds, Minneapolis, Minnesota, July 1993.

"Skin/hemangioma lasers in Otolaryngology: Beyond the basics." Otolaryngology Laser Course UMHC and Hennepin County Medical Center, Minneapolis, Minnesota, September 1993.

"Noninvasive imaging of Klippel-Trenaunay Syndrome." 18th Annual Meeting of the Society of Cardiovascular and Interventional Radiology, New Orleans, Louisiana, February 1993.

"Attachment and proliferation characteristics in cutaneous squamous cell carcinoma." American College of Mohs Micrographic Surgery and Cutaneous Oncology Annual Meeting, Charleston, South Carolina, March 1993.

"Manipulation and interpretation of Immunoenzyme Techniques in Mohs Micrographic Surgery." American College of Mohs Micrographic Surgery and Cutaneous Oncology Annual meeting, Charleston, South Carolina, March 1993.

"The infrared coagulator and its use in dermatology." American Society for Dermatologic Surgery 20th Annual Clinical and Scientific meeting, Charleston, South Carolina, March 1993.

"Multiple trichoepitheliomas: A risk factor for basal cell carcinoma." American Society for Dermatological Surgery 20th Annual Clinical and Scientific meeting, Charleston, South Carolina, March 1993.

"Rapid cytokeratin staining: An analysis of its routine use in Mohs Micrographic Surgery." American Society for Dermatologic Surgery 20th Annual Clinical and Scientific meeting, Charleston, South Carolina, March 1993.

"Efficacy of various degreasing agents use in trichloroacetic acid peels." American Society for Dermatologic Surgery 20th Annual Clinical and Scientific meeting, Charleston, South Carolina, March 1993.

"Career development: Chairmen and dermatologic surgeon perspectives." Association of Academic Dermatologic Surgeons, Chicago, Illinois, 1993.

"Squamous cell carcinoma and basal cell carcinoma: In vitro culture and cell attachment." University of Minnesota Cancer Center Conference, Minneapolis, Minnesota, March 1994.

"The paramedian forehead flap." American College of Mohs Micrographic Surgery and Cutaneous Oncology, San Diego, California, May 1994.

"Basal cell cancer will grow indefinitely in culture." American Society for Dermatologic Surgery, San Diego, California, May 1994.

"Photo documentation." American Academy of Dermatologic Surgery, Chicago, Illinois, October 1995.

"Cutaneous laser surgery: Present and future clinical applications." American Academy of Dermatology, Washington, D.C., February 1996.

"Overview of laser surgery." American Academy of Dermatology, Washington, D.C., February 1996.

"Placental Site Trophoblastic Tumor (PSTT) masquerading as Alopecia Areata: First case report." American Society for Dermatologic Surgery, Palm Desert, California, May 1996.

"Anti-Human Epithelial Antigen (er-EP4) helps define basal cell carcinoma masked by inflammation." American College of Mohs Micrographic Surgery and Cutaneous Oncology, May 1996.

"Acne morphology and management." Medical Education Resources Meeting, Orlando, Florida 1996.

"Malignant tumors." Medical Education Resources Meeting, Orlando, Florida 1996.

"Surgery of common skin disorders." Medical Education Resources Meeting, Orlando, Florida, 1996.

“Advanced Techniques in Cutaneous & Cosmetic Lasers”, Minneapolis, November, 1996, 1997.

“Ultrastructure of collagen thermally denatured by microsecond domain pulsed CO₂ laser.” American Society for Laser Medicine and Surgery, Phoenix, Arizona, April 1997.

“Will Mohs Micrographic Surgery survive today’s medical care environment?” American Academy of Dermatology, March 1997.

“What’s new in dermatologic surgery?” American Academy of Dermatology, New York, New York, August 1997.

“Advanced dermatologic surgery fellowships: Should the AADS assume this obligation?” Association of Academic Dermatologic Surgeons, Chicago, Illinois, October 1997.

“Recognition of skin cancer in clinical practice.” John Muir Medical Center, Walnut Creek, California, October 1997.

“Ear.” Advanced Surgery Course Lecture: American Academy of Dermatology, San Francisco, California, 1997.

Panel Discussion, Advanced Surgery Course: American Academy of Dermatology, San Francisco, California, 1997.

“Cutaneous laser surgery.” American Academy of Dermatology, Orlando, Florida, February 1998.

“Skin resurfacing – Comparing CO₂ resurfacing lasers.” American Academy of Dermatology, Orlando, Florida, February 1998.

“Ear.” Advanced Surgery Course Lecture: American Academy of Dermatology, Orlando, Florida, February 1998.

“Choices in laser surgery.” American Academy of Dermatology, Orlando, Florida, February 1998.

“An introduction to laser skin resurfacing with hands-on laboratory-available technology: Patient selection.” Society for Laser Medicine and Surgery, San Diego, California, April 1998.

“Update on laser surgery.” Advanced Dermatology, San Francisco, May 1998.

“Choices in laser surgery.” Pacific Derm, San Francisco, September 1998

“Common benign skin lesions and their treatment.” The Skin from A to Z, San Francisco, California, September 1998.

“Laser hair removal.” Minimally Invasive Cosmetic Surgery, San Francisco, California, December 1998.

“Comparison of Erbium:YAG vs. CO₂ lasers.” The 23rd Annual Hawaii Dermatology Seminar, Maui, Hawaii, February 1999.

“Hair removal and leg veins.” The 23rd Annual Hawaii Dermatology Seminar, Maui, Hawaii, February 1999.

“Laser resurfacing.” The 23rd Annual Hawaii Dermatology Seminar, Maui, Hawaii, February 1999.

“God complex, as it applies to the dermatologic surgeon.” Chicago Dermatological Society, Chicago, Illinois, February 1999.

“Ear.” American Academy of Dermatology, New Orleans, Louisiana, March 1999.

“Another view of Er:YAG resurfacing.” American Academy of Dermatology, New Orleans, Louisiana, March 1999.

“Top ten reasons to use Er:YAG rather than the CO₂ laser,” “New options for laser hair removal,” and “Multimedia presentation for dermatologic surgeons.” American Academy of Dermatology, New Orleans, Louisiana, March 1999.

“Current concepts in Er: YAG resurfacing.” Minimally Invasive Aesthetic Surgery, San Francisco, California, November 1999.

“Hair removal” and “Vignettes on active and recent research.” Lasers in Cutaneous and Cosmetic Surgery, San Francisco, California, June 1999.

“Video tape – putting it into motion.” American Academy of Dermatology, New Orleans, Louisiana, March 1999 and 2000.

“Laser resurfacing” and “Surgical repairs on the nose & ear.” Hawaii Dermatology Seminar, Kauai, Hawaii, February 2000.

“Botox.” New Directions in Cosmetic Enhancements, Las Vegas, April 2000.

“Botox.” New Directions in Cosmetic Enhancements, Newport Beach, April 2000.

“Putting flaps into motion” and “Reconstruction of the ear.” American Academy of Dermatology, San Francisco, California, March 2000.

“Botox.” New Directions in Cosmetic Enhancements, Burlingame, California, May 2000.

“Hair removal” and “Scanned CO₂ Systems.” Lasers in Cutaneous and Cosmetic Surgery, San Francisco, California, June 2000.

“CO₂ and Erbium: YAG laser skin resurfacing: What is the best approach?” and “Post operative care after laser skin resurfacing: Is there an optimal approach?” Controversies and Conversations in Cutaneous Laser Surgery, Woodstock, Vermont, August 2000.

“Ablative laser resurfacing: Er:YAG & hybrid systems.” Lasers and Cutaneous Cosmetic Surgery, Minneapolis, Minnesota, August 2000.

“How much procedural dermatology should be taught to dermatology residents?” and “Non-laser procedures: What’s hot, what’s not?” Association of Academic Dermatologic Surgeons, Chicago, Illinois, September 2000.

“Advanced dermatology – Sciton laser.” 15th Dialogues in Cosmetic Dermatology, Scottsdale, Arizona, September 2000.

“Botox.” New Directions in Cosmetic Enhancements, Portland, Oregon, October 2000.

“Botox.” Current Concepts in Facial Rejuvenation: Fillers and Chemodenervation, Knoxville, Florida, November 2000.

“Botox.” Current Concepts in Facial Rejuvenation: Fillers and Chemodenervation, Jacksonville, Atlanta, November 2000.

“Botox.” New Directions in Cosmetic Enhancements, Indianapolis, Indiana, December 2000.

“Erbium YAG vs. CO₂ – The final conflict,” “Newer lasers” and “Navigating the Internet.” www.mdlive.com. Hawaii Dermatology Seminar, Lanai, Hawaii, Maui, Hawaii, February 2001.

Director: Cosmetic Surgery Symposium, American Academy of Dermatology, Washington, D.C., March 2001

“Facial rejuvenation Erbium & Sciton lasers,” “Laser for other cosmetic uses pigmented lesions – Lentigines” and “What’s new in resurfacing lasers?” 16th Dialogues in Cosmetic Dermatology, Walt Disney World, Florida, May 2001.

“Differences in botulinum toxin preparations.” Facial Aesthetic Enhancements Educational Initiative, Chicago, Illinois, July 2001.

“Botulinum toxin” and “New developments in dermatology surgery.” American Academy of Dermatology, Summer Academy, Anaheim, California, July 2001.

“CO₂ and Erbium: YAG laser skin resurfacing: What is the best approach?” Controversies and Conversations in Cutaneous Laser Surgery, Beaver Creek, Colorado, August 2001.

“Ear” and “From the Surgical Perspective.” San Diego Dermatological Society, San Diego, California, October 2001.

“Morning at the movies,” “Helical advancement,” “Paramedian forehead flap,” “New laser and new technology,” “Latest on resurfacing lasers,” and “Erbium: YAG laser.” American College of Mohs Micrographic Surgery and Cutaneous Oncology Annual Meeting, Chicago, Illinois, October 2002.

“Acne scarring: Which way to go” and “Facial telangiectasia.” 26th Hawaii Dermatology Seminar, Lahaina, Hawaii, Maui, Hawaii, January 2002.

Director: Cosmetic Surgery Symposium, American Academy of Dermatology, New Orleans, Louisiana, February 2002.

“Erbium & Sciton lasers” and “Pigmented lesions – Lentigines.” Skin Disease Education Foundation, Coronado, San Diego, California, May 2002.

“Critical aspects of Erbium: YAG laser.” Controversies and Conversations in Cutaneous Laser Surgery, Ojai, California, August 2002.

“What’s new in lasers?” 21st Anniversary Fall Clinical Dermatology Conference, Las Vegas, Nevada, October 2002.

“Aging skin: Surgical Treatment.” Young Leaders in Dermatology Symposium, Tucson, Arizona, October 2002.

“Erbium: YAG laser resurfacing: My view” and “Botox the male patient.” 27th Annual Hawaii Dermatology Seminar, Maui, Hawaii, February 2003.

“Lasers for treatment of leg veins” and “Current concepts in CO₂ and Er: YAG laser.” Minimally Invasive Aesthetic Surgery, San Francisco, California, November 2000.

Director: Cosmetic Surgery Symposium, American Academy of Dermatology, San Francisco, California, March 2003.

“Erbium laser” and “What’s new on the internet?” Cosmetic Dermatology Seminar, Scottsdale, Arizona, April 2003.

“The aging face: California style,” “Lasers for spider veins: Are we there yet?,” “Long pulse 1064 nm for leg veins” (video), “Botulinum toxin type A: One toxin, two techniques” (video). Skin Disease Education Foundation, Anaheim, California, May 2005.

“The aging face,” “Laser skin resurfacing with Erbium and CO₂ lasers: Clinical results: Does Erbium alone produce lasting results?” and “Intense Pulsed Light (IPL) – Expected results.” Elective Ophthalmic & Skin Rejuvenation Procedures, Newport Beach, California, August 2005.

“How would you reconstruct it?,” “Morning at the movies: Academics vs. private practice,” and “Laser Controversies.” American Society for Dermatologic Surgery & American College of Mohs Micrographic Surgery and Cutaneous Oncology, Atlanta, Georgia, October 2005.

“Dermatoplastics: What’s in a name?” University of Utah, Health Sciences Center, Salt Lake City, Utah, November 2005.

“Procedures and cosmeceuticals: Success by one means or another” (live video), “Filler demonstrations” (Best of SDEF’s Live Videos, Live Video) and “Botulinum toxin type A, fillers and combinations.” Skin Disease Education Foundation, Hawaii, February 2006.

“Lasers in dermatology.” Providence Holy Cross Medical Center, Mission Hills, California, February 2006.

“Lasers in dermatology.” Orange Coast Memorial Medical Center, Fountain Valley, California, March 2006.

“Laser resurfacing: What’s its role?,” “Avoiding complications,” and “Controversies in laser surgery.” American Society for Laser Medicine and Surgery, Boston, Massachusetts, April 2006.

“The aging face: California style,” “Botulinum toxin type A: Upper face,” and “Procedures and cosmeceuticals: Success by one means or another.” Skin Disease Education Foundation, Phoenix, Arizona, May 2006.

“Photorejuvenation.” Laser and Aesthetic Skin Therapy, Harvard Medical School, Boston, Massachusetts, September 2006.

“Latest advances in skin care.” A Day of Women’s Health, Crystal Cathedral, Garden Grove, California, October 2006.

“Controversies in Dermasurgery” (moderator), “Skin resurfacing & laser controversies,” and “Ablative fractional rejuvenation: Introduction to ablative resurfacing.” American Society of Dermatologic Surgeons Annual Meeting, Palm Desert, California, October 2006.

“Ablative fractional rejuvenation.” Aesthetic and Plastic Surgery Institute, Orange, California, January 2007.

“Aesthetic innovations: Fat and cellulite.” The 2008 South Beach Symposium, Miami, Florida, February 2008.

“What’s hot & what’s not: Aging gracefully.” American Academy of Dermatology, Chicago, Illinois, July and August 2008.

“Fractional Resurfacing.” American Academy of Dermatology Advanced Laser Symposium, San Francisco, California, March 2009.

“Radio Frequency for Fat and Cellulite.” ASDA/ASCDAS Joint Annual Meeting, Phoenix, Arizona, September 2009.

“Fat, Cellulite: Laser, Cooling, High Frequency Ultrasound, Radio-Frequency, Fractionated Radiofrequency.” Harvard Laser & Aesthetic Skin Therapy, Boston, Massachusetts, October 2009

“Photorejuvenation: Ablative Fractional Resurfacing & Ablative Laser.” Harvard Laser & Aesthetic Skin Therapy, Boston, Massachusetts, October 2009

“Energy Based Devices.” Mount Sinai Winter Symposium, New York, New York, December 2009.

“Cryo-Lipolysis” and “Fractional Ablative,” Hawaii Derm Seminar, Waikoloa, Hawaii, February 2010.

“Changing the Perception of RADIESSE Dermal Filler” (moderator), and “Live Injections: Use of Combination Therapy” (moderator), and “Asclera.” (moderator). BioForm Conference, Miami, Florida, February, 2010.

“Supp Lasers with Botulinum Toxin and Fillers”, American Academy of Dermatology, Miami, Florida, March, 2010.

"Ablative Fractional Resurfacing", ASLMS Annual Conference, Phoenix, AZ, April 2010

"Nerve Block & Topical Anesthetics", "Fractional Laser Treatments", Aesthetic Extender Symposium, Miami, Florida, October, 2010.

“Non-Ablative Fractional Lasers, Ablative Fractional Lasers, Fractional Ultrasound, Fractional Radiofrequency: Where Do We Stand?”, Harvard Laser and Aesthetic Skin Therapy – What’s The Truth?, Boston, Massachusetts, October, 2010.

“Clinical Results of Non-Ablative Fractional Photothermolysis for Home-Use Treatment of Photodamaged Skin.”, ASLMS, Grapevine, Texas, March 2011

“Minimally Invasive Breast Reduction: How Effective and Safe are Cryolipolysis and Liposuction?”
“Fractionated Lasers: Science & Technology Background.”, “Permanent Fillers – Why The Reluctance?” Summit in Aesthetic Medicine, Dana Point, California, June 2011

"Do various wavelengths and fractional devices add substantially to resurfacing goals in photoaging and scarring?", "New technology: A Better Less Expensive Laser?", Controversies and Conversations in Laser and Cosmetic Surgery, Asheville, North Carolina, August 2011

“Ablative Fractional Resurfacing”, “Where Do We Stand?”, “Laser and Aesthetic Basics”, “Treatment of Rhytides”, Harvard Medical School, Boston, Massachusetts, October 2011.

“Radiofrequency for Non-Invasive Fat Removal, Does It Work?”, “TRASER in You asked for it”, ASDS, Washington D.C., November 2011

“Body Contouring: What this Mean and Does it Work?”, “Cryo-Liolytic, Radio-Lipolysis & Ultrasound”, Hawaii Derm, Waikoloa, Hawaii, February 2012

“TRASER – Total Reflection Amplification of Spontaneous Emission of Radiation” , American Society for Laser Medicine and Surgery, Kissimmee, Florida, April 2012

“Fractional Erb;YAG resurfacing vs Erb; YAG resurfacing, 10th Annual World Congress, Monaco, March 2012

PAPERS READ AT MEETINGS

International

"T lymphocyte sub populations in atopic eczema: Fluorescence activated computer analysis of monoclonal antibody labeled cells." Royal Society of Medicine, Section of Dermatology, England, February 1982.

"Maladie de Hand-Schuller-Christian avec localisation cutanee." Society Francaise de Dermatologie. Paris, France, 1982.

"Quantification of circulating T lymphocyte sub populations in atopic eczema using monoclonal antibodies and flow cytofluorimetry." British Association of Dermatologists - Summer meeting, Dundee, Scotland, June 1982.

"Increased gastrointestinal permeability in atopic eczema-polyethylene glycol used as a probe Molecule." British Association of Dermatologists - Summer meeting, Dundee, Scotland, 1982.

"Razoxane therapy of psoriasis: Comparison of T cell sub populations using monoclonal antibodies in treated and untreated patients." British Association of Dermatologists – Investigative, Keele, September 1982.

"Lipodystrophie centrifuge abdominale infantile." Societe Francaise de Dermatologie, Paris, France, 1983.

“Non-ablative and ablative laser resurfacing” and “The pathogenesis of amiodarone induced photosensitivity and pigmentation.” Joint European Society for Dermatological Research and Society for Investigative Dermatology Meeting, Washington, D.C., April 1983.

"The nature of amiodarone photosensitivity and pigmentation." British Association of Dermatologists - Summer meeting, London, England June 1983.

“Amiodarone pigmentation: chromatographic ultrastructural and energy dispersive x-ray microanalysis evaluation of tissue deposits.” Society for Cutaneous Ultrastructure Research and International Society of Dermatopathology, Berlin, Germany, June 1983.

"Quantification in situ of T-lymphocyte subsets in atopic eczema." British Society for Investigative Dermatology, Nottingham, England, September 1983.

“Inhalant and food allergens in atopic eczema assessed by RAST studies.” Immunodermatology Symposium, Guy’s Hospital, London, England, September 1983.

“Analysis of the IgE antibody response to pure cow’s milk and hen’s egg proteins in eczematous patients.” Immunodermatology Symposium, Guy’s Hospital, London, England, 1983.

“Circulating and in situ T lymphocytes in atopic eczema.” Second International Symposium of Atopic Dermatitis, Loen, Norway, June 1984.

"Symptoms of food allergy in atopic eczema patients." Fifth Charles Blackley Symposium on the Clinical Aspects of Atopic Disease, Nottingham, England, July 1984.

"The importance of nail morphology in the differential diagnosis of pityriasis rubra pilaris psoriasis and chronic erythroderma." British Association of Dermatologists, Belfast, Ireland, June 1984.

“Role of circulating and tissue inflammatory cells in atopic eczema.” St. John's Hospital Tuesday Lunchtime Seminar, London, England, October 1984.

“Circulating and dermal T lymphocytes and antigen presenting cells in atopic eczema.” Centre International de Recherches Dermatologiques (CIRD) Symposium (Advances in Skin Pharmacology, The role of circulating cells in skin reactions). Sophia Antipolis, October 1984.

“Lymphangiome Progressif”. Franco British Meeting. Normandy, France, October 1984.

"Skin disease in the elderly - a common problem." Isle of Wight Postgraduate Medical Federation lecture, England, November 1984.

"In situ cellular phenotypes in eczema and leprosy." St. Georges Hospital Dermatopathology Seminar, London, England, June 1985.

"Misconceptions and body image: Relation to common skin disorders." Zest Skin Forum, City University, London, England, June 1985.

"Antigen presenting cells in atopic dermatitis-evidence for a cell mediated immune response in the pathogenesis." British Society for Investigative Dermatology, Keele, 1984.

"Cellulite A Eosinophiles." Societe Francaise de Dermatology, Paris, France, 1984.

"Ulex europaeus agglutinin and factor VIII related antigen in the diagnosis of progressive lymphangioma." British Society for Dermatopathology Symposium, Hammersmith Hospital, London, England, March 1985.

"Zyderm: An academic approach to a cosmetic agent." British Dermatological Society Group, Sheffield, England, July 1986.

"The CO2 Laser: Its clinical applications in dermatologic surgery." British Dermatological Surgery Group, Sheffield, England, July 1986.

"Injectable collagen - Assessment of Zyderm II: Clinical usage." Madrid/Barcelona, Spain, October 1986.

"Modes of spread of Basal Cell Carcinoma." British Association of Dermatologists, Sheffield, England, July 1986.

"Genital tumors – their management by micrographic surgery." VII International Congress of Dermatologic Surgery, London, England, September 1986.

"Donor site choice in full and split thickness skin grafting." VII International Congress of Dermatologic Surgery, London, England, September 1986.

"Lymphoscintigraphy: its use in melanoma." 13me Congress National De Medecine Esthetique et De Chirurgie Dermatologique. Paris, France, September 1986.

"The use of tissue expansion in dermatologic surgery." 13me Congress National De Medecine Esthetique et De Chirurgie Dermatologique. Paris, France, September 1986.

"Genital tumors - Mohs microscopic controlled margins and conservative surgery." Institute of Urology, London, England, January 1987.

"Cutaneous surgery at St. John's Hospital: A brief retrospective." Section of Dermatology, Royal Surgery of Medicine, London, England, February 1987.

"Surgical management of malignant skin tumors of the head and neck." Fifth Annual Course for Consultants and Skin Physicians: Skin Cancer, Diagnosis and Management, February 1987.

"Cowhide makes you beautiful." Society for Beautitherapists, Royal Society of Medicine, London, England, March 1987.

"Laser surgery: Its application for dermatologists." British Dermatological Surgery Group Annual Workshop, Oxford, England, April 1987.

"What is dermatosurgery?" Department of Surgery, Middlesex Hospital, London, England, March 1987.

"Chemosurgery and plastic repair for rodent ulcers: An American approach." Department of Radiotherapy, Middlesex Hospital, London, England, April 1987.

"The length and breadth of dermatological surgery." Bristol Royal Infirmary, Bristol, England, October 1989.

"Current concepts in tissue expansion." Dermatology in the Year 2000, London, England, May 1990.

"Local control of malignant disease." Dermatology in the Year 2000, London, England, May 1990.

"Non-invasive evaluation of asymmetric limb hypertrophy with and without associated cutaneous vascular anomalies: Klippel-Trenaunay (KT) Syndrome and its variation." 8th International Congress of Human Genetics, Washington, October 1991.

"The use of pulsed dye laser for non-port wine stain cutaneous lesions." Combined meeting of the Dowling Club and the Southwest England and Wales Dermatology Society, Bridgend, Wales, May 1992.

"Radiologic evaluation of asymmetric limb hypertrophy with and without associated cutaneous vascular abnormalities: Klippel-Trenaunay syndrome and its variations." 6th International Congress of Pediatric Dermatology, Toronto, Canada, June 1992.

"The application of the vascular (585 nm) pulsed-dye laser for lesions other than port wine stains." Dowling Club and SW of England and Wales Dermatological Society, Brigend, Wales, May 1992.

"Advancement flaps: Surgical symposium." World Congress of Dermatology, New York, New York, 1992.

"Nasal reconstruction." Winter Surgical Meeting, Mount Buller, Victoria, Australia, August 1994.

"Current concepts in laser surgery." Winter Surgical Meeting, Mount Buller, Victoria, Australia, August 1994.

"Anatomy for the dermatologic surgeon." Winter Surgical Meeting, Mount Buller, Victoria, Australia, August 1994.

"Skin resurfacing using the Heraeus Paragon Carbon Dioxide laser." Korean Dermatology Association, Seoul, Korea, September 1995.

"Laser tissue interaction using the new carbon dioxide laser systems." Tokyo University, Tokyo, Japan, September 1995.

"What's new in dermatologic surgery?" British Association of Dermatology, Bournemouth, England, July 1996.

"Laser resurfacing in Asian skin." Dague Dermatology Society, Korea, September 1996.

"Mohs surgery: Where are we now?," "Lasers and the skin," and "Cutaneous surgery and laser therapy." 19th World Congress of Dermatology, Sydney, Australia, June 1997.

"Use of a new electrosurgical device for cutaneous resurfacing." European Society for Cosmetic and Aesthetic Dermatology, Nice, France, October 1998.

"Use of a new electrosurgical device for cutaneous resurfacing." Third Annual Course on Lasers in Cutaneous and Cosmetic Surgery, London, England, March 1999.

"Lasers for hair removal" and "CO2 Laser Resurfacing." Third Annual Course on Lasers in Cutaneous and Cosmetic Surgery, London, England, March 1999.

"Lasers for Hair Removal", "CO2 Laser Resurfacing." Fourth Annual Course on Lasers in Cutaneous and Cosmetic Surgery. London, England, March 2000.

"It's all based on the fusiform excision," "Cutaneous surgery in motion," "Denouements in the surgical arena," "Modulating the Erbium Laser," and "The current status of hair removal lasers." Australasian College of Dermatologists Annual Scientific Meeting, Sydney, Australia, May 2000.

"Sciton Lasers." Skin Resurfacing & Soft Tissue Augmentation Conference, Vancouver, British Columbia, Canada, May 2000.

"Botox: The latest techniques." Fall Conference on Clinical Dermatology, Los Cabos, Mexico, October 2000.

"Laser epilation," and "Er: YAG laser resurfacing." Lasers & Cutaneous Cosmetic Surgery, 5th Annual Course, London, England, April 2001.

“Lessons concerning ablative & non-ablative resurfacing” and “Live surgery – Sciton demonstration.” Canadian Laser Aesthetic Surgery Society, Toronto, Canada, November 2001.

“Skin rejuvenation: Skin resurfacing for acne and pigmentation,” “Hair removal,” “Skin rejuvenation & techniques in using laser medical equipment.” Chinese Women’s & Children’s Foundation, September 2002.

“Nuevas en cirugía LASER”, “Luz Pulsada Intensa para el dano actinico, depilacion, y para mucha otras cosas” “Internet, ensenanza y dermatologia. Que le ensenamos a nuestros Residentes y Como!” Simposio Apertura 2003. Buenos Aires, Argentina, April 2003.

“Industry and academics: Who’s wagging the tail?” Controversies and Conversations in Laser Surgery Symposium, Mont Tremblant, Canada, August 2004.

“Cirugia Dermatologica Basica,” “Láser en lesiones pigmentadas,” “Láser en lesiones vasculares,” “Rosacea y Enfermedades Afines” and “Técnicas no ablativas: ¿funcionan?” RADLA, Latin American Congress, Santiago, Chile, May 2006.

“Facial rejuvenation with energy-based devices” and “Skin tightening.” Botox, Fillers, and More, Vancouver, Canada, August 2006.

“New parameters and techniques in fractionated laser treatment,” “Erbium micro-laser peel: Pros and cons to Erbium Rejuvenate vs. Fraxelated (role of each vs. resurfacing),”

“Tattoos/dyschromia/pigmented lesions: Optimizing results – My perspective,” and “Laser treatment of Tuberous Sclerosis and other dermatologic diseases.” International Conference, Barcelona, Spain, September 2006.

“Acne scarring: Non-ablative techniques,” “A critical look at new laser technologies,” “Ablation vs. non-ablation,” and “Ablative fractional rejuvenation.” Fifth International Academy of Cosmetic Dermatology World Congress, Melbourne, Australia, December 2006.

“Medicine particular techniques, ethnic skin (lasers, acne scar & ablative rejuvenation, leg vein algorithm, xanthelasm): Veins particular techniques.” IMCAS, Paris, France, January 2007.

“Of all ablative resurfacing procedures how is one to choose amongst CO2, fractional CO2, plasma, variable pulse erbium YAG...?” Controversies and Conversations in Laser and Cosmetic Surgery, Whistler, British Columbia, Canada, August 8-10, 2008.

“Facial rejuvenation with energy-based devices” and “Fractional Ablative” and “Cryolipolysis and Radiofrequency.” Laser International, Riyadh, Saudi Arabia, January 2010

“Energy Based Therapy for Facial Rejuvenation” and “Great Cases Successfully Treated with Laser Therapy.” Dermatology Therapy Conference, Catania, Italy, February 2010

"New Trends in Laser Skin Resurfacing", and "The Full Spectrum of Fractional Erbium:YAG Laser", 8th World Congress, Monaco, April 2010

“Laser Treatment of Acquired Pigmented Lesions” Laser Europe 2010, Spain, May 2010

“Advances and Controversies in Body Shaping”, “Cryolipolysis and Radiofrequency as Selective Agent for Localized Fat Reduction”, “Advances and Controversies in Skin Tightening”, “Radiofrequency and its Role in Tissue Tightening”, “Advances and Controversies in Fractional Lasers”, “The Science of Fractionated Ablative Surgery”, “Advances and Controversies in the Treatment of Scars” Laser Innsbruck Dermatology Symposium, Innsbruck, Austria, September, 2010.

“New Trends in Lasers and Lights”, “USA Special- Dermatological Procedures”, “The Great Question in Aesthetic Treatments for Fat” Anti-Aging World Congress, Monaco, March 2011.

“Disasters and Cries for Help”, British Medical Laser Association, Woburn, UK, May 2011

“Hirsutism and Hair Removal”, European Hair Research Society, Jerusalem, Isreal, July 2011.

"Comparing Home use fractionated non ablative Devices: How do they stack up?", "Comparing multiple Pulse Technology vs. Single Pulse Hair Removal Lasers for Hair Removal" and "The Science of fractionated Devices - History of development and current Technology." 5 CC Continent Congress, Cannes, France, September 2011.

” From Ablative to Fractional CO2 From Epilation to Rejuvenation”, “Symposium Fundamentals of Laser Equipment”, 8th World Congress of Cosmetic Dermatology, Cancun, Mexico, February 2012

I have also presented at multiple meetings, nationally and internationally as guest speaker on subjects ranging from “Ethics and laser industry,” “Erbium YAG laser techniques,” and “Myths and Confusion in Cosmetic Surgery.”

POSTER PRESENTATIONS

"British Experience with CO2 Laser Ablation for Persistent Viral Warts." 47th Annual Meeting of the American Academy of Dermatology, Washington, December 1988.

"Cell attachment and proliferation characteristics in the progression of cutaneous squamous cell carcinoma." Society for Investigative Dermatology, Baltimore, May 1992.

"Rapid cytokeratin stains enhance sensitivity of Mohs micrographic surgery." 18th World Congress of Dermatology, New York, June 1992.

"Cell attachment and proliferation characteristics in the progression of cutaneous squamous carcinoma." 53rd Annual Meeting of the Society for Investigative Dermatology, Baltimore, Maryland, 1992.

D.A. Kist, C.B. Zachary. 1993 Localization of Alpha 3 Integrin Messenger RNA in Cutaneous Squamous Cell Carcinoma. JID 100:552.

C.B. Zachary, O.M.V. Schofield, D.A. Kist, S.A. Grando. 1993 Culture of BCC. JID 100:602.

O.M.V. Schofield, D.A. Kist, A. Lucas, E. Wayner, W. Carter, C.B. Zachary. 1993 Abnormal Expression of Epiligrin and Alpha 6 Beta 4 Integrin in Basal Cell Carcinoma. JID 100:603.

J.M. Waller, W. Rietkerk, J.M. Phillips, C.H. Lam, K. Osann, J. Mccullough, K.G. Linden, C.B. Zachary. Educating Orange County, CA Teens about Sun Safety and Skin Cancer: What Have We Learned? AAD 2006 64th Annual Meeting, San Francisco, California, March 2006.

J.M. Waller, W. Rietkerk, J.M. Phillips, C.H. Lam, K. Osann, J. Mccullough, K.G. Linden, C.B. Zachary. The Joel Myres Melanoma Awareness Project, Spreading the Melanoma Message, Spot a spot, save a life! AAD 2006 64th Annual Meeting, San Francisco, California, March 2006.

J.M. Waller, W. Rietkerk, J.M. Phillips, C.H. Lam, K. Osann, J. Mccullough, K.G. Linden, C.B. Zachary. The National Melanoma Awareness Project: Join Us! American Medical Student Association 11th Annual Convention, Chicago, Illinois, March 2006

J.M. Waller, W. Rietkerk, J.M. Phillips, C.H. Lam, K. Osann, J. Mccullough, K.G. Linden, C.B. Zachary. Longitudinal Evaluation of the Joel Myres Melanoma Awareness Project Curriculum in 1200 Orange County Teens. American Medical Student Association 11th Annual Convention, Chicago, Illinois, March 2006.

D.J. Fife, S. Behnam, D. Rayhan, L. Elkeeb, N. Ramsinghani, J. Kuo, K. Kelly, D.E. Rao, A. Truitt, C. Zachary. LED Photomodulation for Prevention of Post-radiation Dermatitis: A Prospective, randomized,

controlled study. The American Society of Dermatologic Surgery Annual Meeting, Chicago, Illinois, October 2007.

J. A. Tournas, A. Truitt, K.M. Kelly, C.B. Zachary. Treatment of photodamage and rhytides with a fractionally-delivered 10,000nm carbon dioxide laser device. American Society for Dermatologic Surgery Annual Meeting, Chicago, Illinois, October 2007.

Z. Rahman, H. Tanner, J. Tournas, K. Jiang, K.M. Kelly, L. Berkowitz, C. Zachary. Ablative Fractional Resurfacing for the Treatment of Photodamage and Laxity. American Society for Laser Medicine and Surgery Annual Meeting, Dallas Texas, 2007.

D. Fife, S. Behnam, L. Elkeeb, A. Ortiz, D. Rayhan, L. Aquino, E.D. Roa, N. Rasmsinghani, J. Kuo, C. Zachary, K. Kelly. LED Photomodulation for Prevention of Radiation Dermatitis: A Prospective, Randomized, Controlled Study. American Society for Laser Medicine and Surgery Annual Conference, Gaylord Palms, Kissimmee, Florida, April 2-6, 2008. Poster 381.

A. Ortiz, L. Elkeeb, A. Truitt, J.A. Tournas, C.B. Zachary. Evaluation of a novel fractional resurfacing device for treatment of acne scarring. American Society for Lasers in Surgery and Medicine Annual Meeting, April 2008.

K. Kelly, K. Linden, J. McCullough, B. Metz, G. Weinstein, C. Zachary, L. Elkeeb, A. Ortiz. UC Irvine Dermatology Clinical Research – 25 Years. School of Medicine Faculty Research Poster Session & Reception, Irvine, California, June 19, 2008.

A. Ortiz, L. Elkeeb, A. Truitt, M. Tran, G. Weinstein. Effects of PRK 124 (0.125%) Lotion in Acne Rosacea. School of Medicine Faculty Research Poster Session & Reception, Irvine, California, June 19, 2008.

C. Zachary and the Dermatology Clinical Faculty. Moving South: Why It Makes Sense For Our Ambulatory Programs. School of Medicine Faculty Research Poster Session & Reception, Irvine, California, June 19, 2008.

D. Fife, S. Behnam, L. Elkeeb, A. Ortiz, D. Rayhan, L. Aquino, D. Roa, N. Ramsighani, J. Kuo, C. Zachary, K. Kelly. LED Photomodulation for Prevention of Radiation Dermatitis: A Prospective, Randomized, Controlled Study. School of Medicine Faculty Research Poster Session & Reception, Irvine, California, June 19, 2008.

PUBLICATIONS ORIGINAL ARTICLES IN JOURNALS

1. C.B. Zachary, D.M. MacDonald. (1983) Quantitative analysis of T-lymphocyte subsets in atopic eczema, using monoclonal antibodies and flow cytofluorimetry. *Br. J. Dermatol.* 108: 411-22.
2. C.B. Zachary. (1983) Food allergy in atopic eczema. *Mims Magazine* 1.
3. C.B. Zachary, D.N. Slater, D.W. Holt, G.C. A. Storey, D.M. MacDonald. (1984) The pathogenesis of amiodarone induced pigmentation and photosensitivity. *British J. Derm.* 110:451-6.
4. C.B. Zachary, M.H. Allen, D.M. MacDonald. (1985) In situ quantification of T-lymphocyte subsets and langerhans cells in the inflammatory infiltrate of atopic eczema. *British J. Derm.* 112:149-56.
5. B. Zachary, L.W. Poulter, D.M. MacDonald. (1985) Cell mediated immune responses in atopic dermatitis: The relevance of antigen presenting cells. *British J. Derm.* 113 Sup 28: 10-16.
6. C.B. Zachary, E. Wilson Jones. (1985) Discussion du diagnostique de lymphangiome progressif. *Les Nouvelles Dermatologiques.*

7. T.S. Sonnex, R.P.R. Dawber, C.B. Zachary, P.R. Millard, W.A.D. Griffiths. (1986) The nails in pityriasis rubra pilaris: A clinicopathological study. *J. Am. Acad. Dermatol.* 15:956-60.
 8. M.D. Brown, C.B. Zachary, R.C. Grekin, N.A. Swanson. (1987) Penile tumors: Their management by Mohs micrographic surgery. *Dermatol. Surg Oncol.* 13:1163-7.
 9. P.L. Amlot, D.M. Kemeny, C.B. Zachary, P. Parkes, M.H. Lessof. (1987) Oral allergy syndrome (OAS): Symptoms of IgE mediated hypersensitivity to foods. *Clinical Allergy* 17:33-42
 10. C.B. Zachary, H.J. Rauch, D.M. MacDonald. (1987) Shared antigenic determinants between cutaneous structures and the monoclonal natural killer cell antibodies, Leu 7 and Leu 11. *Clin. Exp. Derm.* 12:256-9.
 11. J.P. McCoy, W. Schade, R.J. Siegle, E.E. Vanderveen, C.B. Zachary, T.P. Waldinger, N.A. Swanson. (1987) Immune responses to bovine collagen implants: Significance of pretreatment serology. *J Am Acad Dermatol.* 16: 955-60.
 12. M.D. Brown, C.B. Zachary, R.C. Grekin, N.A Swanson. (1988) Genital tumors: Their management by micrographic surgery. *J Am Acad Dermatol.* 18:955-60.
 13. R.A. Logan, C.B. Zachary. (1989) Outcome of carbon dioxide laser therapy for persistent cutaneous viral warts. *Brit J Dermatol.* 121:99-105.
 14. O.J. Rustad, V.N. Kaye, R. Cerio, C.B. Zachary. (1989) Post fixation of cryostat sections improves tumor definition in Mohs surgery. *J Derm Surg Oncol.* 15:1262-67.
 15. E. Wilson Jones, R.K. Winkelmann, A.M. Reda, C.B. Zachary. (1990) Benign lymphangioendothelioma. *J Am Acad Derm* 23:229-235.
 16. O.J. Rustad, D.A. Kist, C.B. Zachary. (1990) Postfixation expanded fixative study. *J Dermatol Surg Oncol.* 16(8):769.
 17. R.J. Glinert, C.B. Zachary. Caine sensitivity: Its recognition and avoidance. *J. Derm Surg Oncol.* (1991) 17:491-496.
 18. D. Kist, C.B. Zachary. Direct transfer of curettings to cryostat chuck in Mohs micrographic surgery. *J Derm Surg Oncol.* (1992) 18:226-228.
 19. M.K. Harder, C.B. Zachary. Pseudocyst of the ear. *Surgical Treatment. J Derm Surg Oncol.* (1993) 19 (6): 585-588
 20. J. Piekert, C.B. Zachary. The efficacy of various degreasing agents used in trichloroacetic acid peels. *J Derm Surg Oncol.* (1994) 20 (11): 724-728.
- NOTE: Duplicate #'s (#20) on 2005 appointment CV renumbered
21. D.W.S. Harris, D. Kist, K.E. Bloom, C.B. Zachary. Rapid staining with carcinoembryonic antigen aids limited excision of extramammary Paget's disease treated by Mohs surgery. *J Derm Surg Oncol.* (1994) 20: 260-264.
 22. C.B. Zachary, E.B. Rest, S.M. Furlong, P.N. Arcedo, B.C. McGeorge, D.A. Kist. Rapid cytokeratin stains enhance the sensitivity of Mohs micrographic surgery for squamous cell carcinoma. *J Derm Surg Oncol.* (1994) 20 (8): 530-535.
 23. J.M. Peikert, V.N. Kaye, C. B. Zachary. A reevaluation of the effect of occlusion on the trichloroacetic acid peel. *J Derm Surg Oncol.* 1994 20 (10): 660-665.
 24. S.A. Grando, O.M.V. Schofield, A.P.N. Skubitz, D. Kist, C.B. Zachary. Nodular basal cell carcinoma in vivo vs. in vitro: Establishment of pure cell cultures, cytomorphologic characteristics,

- ultrastructure, immunophenotype, biosynthetic activities, and generation of antisera. *Arch Dermatology*, October 1996; 132: 1185-1193.
25. T. Cottingham, J.L. Larson, J.P. Delaney, C.B. Zachary. Sentinel node dissection in the treatment of melanoma. Report of three cases and review of the literature. *Dermatologic Surgery*, 1997 Feb, 23(2):113-8; discussion 118-9.
 26. D. Kist, W. Perkins, S. Christ, C.B. Zachary. Anti-human epithelial antigen (Ber-EP4) helps define basal cell carcinoma masked by inflammation. *Dermatologic Surgery*, 1997 Nov, 23(11):1067-70.
 27. K.M. Kirsch, B.D. Zelickson, C.B. Zachary, W.D. Tope. Ultrastructure of collagen thermally denatured by microsecond domain pulsed CO₂ laser. *Arch Dermatol*, 1998 Oct, 134:1255-59
 28. O.M.V. Schofield, D. Kist, A. Lucas, D. Wayner, W. Carter, C.B. Zachary. Abnormal expression of epiligrin and alpha 6 beta 4 integrin in basal cell carcinoma. *Dermatologic Surgery*, 1998 May, 24(5):555-9.
 29. Y.F. Yuen, E.J. Lewis, J.T. Larson, M.S. Wilke, E. B. Rest, C.B. Zachary. Scalp metastases mimicking alopecia: First case report of placental site trophoblastic tumor. *Dermatologic Surgery*, 1998 May, 24(5):587-91. (UI: 98260378)
 30. S.A. Berry, C. Peterson, W. Mize, K. Bloom, C.B. Zachary, P. Blasco, D. Hunter. Klippel trenaunay syndrome. *American Journal of Medical Genetics*, 1998 79:319-26.
 31. C.T. Chui, T. G. Berger, V.H. Price, C.B. Zachary. (1999) Recalcitrant scarring follicular disorders treated by laser-assisted hair removal: A preliminary report. *Dermatol Surg*. 1999 Jan;25(1):34-7.
 32. S.B. Connolly, E.J. Lewis, J.S. Lindholm, B.D. Zelickson, C.B. Zachary, W.D. Tope. Management of cutaneous verruciform xanthoma. *J Am Acad Dermatol*. 2000 Feb; 42(2 Pt 2):343-7. Review.
 33. R.C. Grekin, W. Tope, M. Phil, J. Yarborough, Jr., I. Olhoffer, P. Lee, D. Leffell, C. Zachary. Electrosurgical facial resurfacing: A prospective multicenter study of efficacy and safety. *Arch Dermatol*, 2000 136:1309 – 1316.
 34. K.B. Herne, C.B. Zachary. New facial rejuvenation techniques. *Semin Cutan Med Surg*. 2000 Dec;19(4):221-31. Review.
 35. C.B. Zachary. Modulating the Er:YAG laser. *Lasers in surgery and medicine*. 2000. 26:223 – 226.
 36. M. J. Sapijaszko, C.B. Zachary. Er:YAG laser skin resurfacing. *Dermatol Clin*. 2002 Jan;20(1):87-96.
 37. B.M. Hantash, V.P. Bedi, B. Kapadia, Z. Rahman, K. Jiang, H. Tanner, K.F. Chan, C.B. Zachary. In vivo histological evaluation of a novel ablative fractional resurfacing device. *Lasers Surg Med*. 2007 Feb;39(2):96-107.
 38. B.M. Hantash, V.P. Bedi, K.F. Chan, C.B. Zachary. Ex vivo histological characterization of a novel ablative fractional resurfacing device. *Lasers Surg Med*. 2007 Feb;39(2):87-95.
 39. V.P. Bedi, K.F. Chan, R.K. Sink, B.M. Hantash, G.S. Herron, Z. Rahman, S.K. Struck, C.B. Zachary. The effects of pulse energy variations on the dimensions of microscopic thermal treatment zones in nonablative fractional resurfacing. *Lasers Surg Med*. 2007 Feb; 39(2):145-55.
 40. S. Walgrave, A. Ortiz, H. McFalls, L. Elkeeb, A. Truitt, J. Tournas, B. Zelickson, C. Zachary. Evaluation of a novel fractional resurfacing device for the treatment of acne scarring. *Lasers Surg Med*. 2009 Feb 18;41(2):122-127.

41. Z. Rahman, H. MacFalls, K. Jiang, K. Chan, K. Kelly, J. Tournas, O. Stumpp, V. Bedi, C. Zachary. Fractional deep dermal ablation induces tissue tightening. *Lasers Surg Med.* 2009 Feb 18;41(2):78-86.
42. D. Fife, C.B. Zachary. Delayed pinpoint purpura after fractionated CO₂ treatment in a patient taking ibuprofen in the post-operative period. *Dermatologic Surgery* (in press).
43. O. Stumpp, V. Bedi, K.F. Chan, C. Zachary. Quantitative Mass Loss Studies in Ablative Fractional Resurfacing (AFRTM) For Removal of Deep Dermal Tissue. (in preparation)
44. J. Channual, J. Wu, C. Zachary. Localized Contract Urticaria Caused by Lidocaine/Tetracaine Peel. *Archives of Dermatology*, Vol. 145, No. 4, April 2009.
45. N. Saedi, C. B. Zachary, A. John. Correlation of fat layer thickness and circumference reduction: A geometric model. *Lasers in Surgery and Medicine*, 2010 May, pg. 20.
46. N. Saedi, O. Stumpp, V. Bedi, K. Chan, C. B. Zachary. Ablative fractional resurfacing for removal of deep dermal tissue: Comparison to surgical facelift. *Lasers in Surgery and Medicine*, 2010 May, Pg 29.
47. C. B. Zachary. Fractional ablative laser CO₂: basic science. *Les Nouvelles Dermatologiques*, 2010 June, Pg 42.
48. C.B. Zachary. Radiofrequency: my experience in 2010. *Les Nouvelles Dermatologiques*, 2010 June, Pg 48.
49. C.B. Zachary. Photoaging, Vascular Lesions, and Pigmentation: The Cornerstone of Any Cosmetic Laser Practice. *Practical Dermatology*, 2010 July, Pg 1.
50. C.B. Zachary. Treatment of Actinic Cheilitis Using a 1927 nm Thulium Fractional Laser. *Dermatologic Surgery*.

BOOKS, BOOK CHAPTERS, FORWARDS

1. "Inhalant and food allergens in atopic eczema assessed by Rast studies." *Immunodermatology*, (1984) Ed. MacDonald, D.M., Butterworths, London.
2. "Analysis of the IGE antibody response to pure cow's milk and hen's egg proteins in eczematous patients." *Immunodermatology*, (1984) Ed. MacDonald, D.M. Butterworths, London.
3. "Dermatologic Surgery – A primer in Technique." (1990) C.B. Zachary. Churchill Livingston.
4. "Fundamentals of dermatologic surgery for the dermatology resident." Ed. by Manual Association of Academic Dermatologic Surgeons (1991) (C.B. Zachary, contributor).
5. "Reactivity of the CD66 panel of monoclonal antibodies with regenerating epidermis near basal cell carcinoma." (1993) (C.B. Zachary, contributor).
6. "Surgery." *Current Opinion in Dermatology*, (1997) Ed. Dahl, M.V., Rapid Science Publishers, Philadelphia, PA. (C.B. Zachary, contributing editor).
7. Foreword in *Laser Dermatology*, 2007, by David Goldberg. Blackwell, Oxford, UK
8. *Atlas of Cosmetic Surgery* by Michael S. Kaminer, Kenneth A. Arndt, Jeffrey S. Dover, Thomas Rohrer, and Christopher Zachary with DVD, 2008, Saunders. United Kingdom.
9. *Laser Skin Resurfacing* in *Lasers and Lights II*, 2008. CB Zachary, CK Rokhsar, RE Fitzpatrick. Ed David Goldberg. Saunders

10. Ablative fractional lasers. JA Tournas, CB Zachary (2009). in Eremia S (ed.), Office cosmetic procedures: a practical manual. Cambridge University Press, Cambridge, United Kingdom. (in press)
11. Ablative and fractional resurfacing. in Facial Resurfacing. JA Tournas, CB Zachary (2009). In Goldberg DJ (ed.), Blackwell Publishing, Oxford, United Kingdom
12. "The Business of Laser Surgery", "The Hall of Shame", Laser and IPL Technology in Dermatology and Aesthetic Medicine, CB Zachary (2011).
13. "Fractionation: A New Era in Laser Resurfacing", Cosmetic Medicine and Minimally Invasive Surgery-Clinics in Plastic Surgery, (2011) C.B. Zachary

POSTERS

Report Of A Novel Fractional Ablative Laser For Tissue Tightening. Zakia Rahman, Kin F Chan, Heather Tanner, Kerrie Jiang, Christopher Zachary, George Frangineas, Vikramaditya P Bedi. Lasers in Surgery and Medicine 2007

LETTERS AND CASE REPORTS

1. C.B. Zachary, D.M. MacDonald. (1983) Hand-Schuller-Christian Disease with secondary cutaneous involvement. Clin. Ex. Derm. 8, 177-83.
2. C.B. Zachary, R.S. Wells and C. Joiner. (1983) Blue rubber bleb nevus syndrome British J. Derm. 109, 93 (sup)
3. C.B. Zachary, R.S. Wells. (1983) Tigason treated bullous ichthyosiform erythroderma. British J. Derm. 109,69.
4. C.B. Zachary, R.S. Wells. (1984) Centrifugal Lipodystrophy British J. Derm. 110:107.
5. C.B. Zachary, E. Wong, E. Wilson Jones. (1984) Cellulite a Eosinophiles-Ann. Dermatol. Venereol. 111;777-778.
6. C.B. Zachary, E. Wilson Jones, D.J. Atherton (1985) Tufted Angioma. British J. Derm. 113:53 (sup).
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