

CHRISTOPHER CONRAD

— *Court-qualified cannabis expert* —

PO Box 1716, El Cerrito CA 94530 USA • Federal EIN # 20-0299519
Phone: 510-215-8326 • Fax: 510-234-4460 • Email chris@chrisconrad.com

Curriculum vitae, January 1, 2010

Summary and highlights of experience:

Chris Conrad has studied cannabis (marijuana) since 1988. Author of *Cannabis Yields and Dosage*, he also wrote two scholarly books on cannabis, including *Hemp for Health*, and contributed to several others. Presented findings at the *Fifth Clinical Conference on Cannabis Therapeutics* (2008). Familiar with many books and scientific studies, including National Institute on Drug Abuse and Drug Enforcement Administration (DEA) data. Consults with government agencies. Reported on California dispensaries for state legislators. Testified at National Academy of Science, Institute of Medicine hearings. Regularly consults with patients, providers and physicians, including some of the world's foremost authorities on cannabis.

Court-qualified as an expert witness in cannabis cultivation, sex, genetics, cloning, crop yields, preparation, odor, medical use, personal use, dosage, consumption, sales, and commercial intent. Qualified in at least 35 California counties: Alameda, Butte, Calaveras, Contra Costa, Del Norte, El Dorado, Fresno, Humboldt, Inyo, Kern, Lake, Los Angeles, Madera, Marin, Monterey, Napa, Nevada, Orange, Placer, Plumas, Riverside, Sacramento, San Francisco, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Shasta, Siskiyou, Solano, Sonoma, Stanislaus, Tulare, Tuolumne, Ventura and Yolo. Testimony mentioned by CA Court of Appeals and Supreme Court. Qualified in the federal Ninth Circuit Court in Northern, Southern, and Eastern, Districts of California, Fifth Circuit Middle District of Louisiana. Qualified in US Courts Martial. Qualified in Oklahoma, Oregon and North Dakota.

Has since 1991 traveled to Europe numerous times to research cannabis. Has hands-on experience in the breeding, cultivation and processing of cannabis in Holland and Switzerland. Examined personal cannabis gardens in Spain, Argentina, and industrial hemp in Germany and Holland. Observed indoor, outdoor and greenhouse gardens, participated in harvests and processing.

Investigated more than 800 criminal cases, testified more than 150 times. Reviewed scores of police reports and narratives, search warrants, case documents, photos, court transcripts, evidence reports, videos, diagrams, etc. Heard police officers testify at least 75 times. Interviewed scores of defendants and witnesses. Examined, evaluated, weighed, and/or measured forensic material at least 250 times, including microscopic exam, photos, root count, site visit and manicure.

Taught accredited CLE courses on marijuana investigations for NORML Criminal Defense Lawyers Committee, Orange County (CA) Office of the Public Defender, and Santa Cruz Criminal Defense Attorneys. Lectured or taught classes on cannabis at institutions including UC Berkeley, Learning Annex, Five Branches Institute, Omega Institute, Mills College, USC, etc. Designed / curated Hash-Marijuana-Hemp Museum of Amsterdam, with displays on all aspects of cannabis and an operating indoor cannabis garden.

Earned Bachelor's degree *magna cum laude* from California State University. Has accredited training by California Medical Association, Institute of Health Professionals, International Association for Cannabis as Medicine, American University, and Nova Institut (Germany). Personally acquainted with patients in the federal Investigational New Drug (IND) medical marijuana program.

Detailed legal qualifications, field research, scientific analysis, literature reviews

- 2009: Qualified in numerous California counties as an expert on cannabis cultivation, yields, dosage, usage, processing, patient collective organizations, cultivation and operations, lawful and illicit distribution, and related issues in various counties previously listed. Examined police files, medical records, financial records, transcripts, photos, videos, audiotapes, weighed and examined forensic evidence visually and by microscope, interviewed defendants, investigated garden sites, and heard police testimony as to their training, experience, observations and opinions, thereby familiarizing myself with law enforcement investigative techniques. Viewed numerous indoor and outdoor cannabis gardens. Visited numerous cannabis dispensaries, met with patient collectives throughout the state. Consulted with other experts nationally and internationally. Taught accredited CLE in Oregon. Attended 2010 session of the UN High Commission on Narcotic Drugs in Vienna, Austria. Examined and discussed cannabis plants under cultivation in Amsterdam, The Netherlands. Examined personal indoor and outdoor cannabis gardens in Argentina. Faculty of Oaksterdam University.
- 2008: Qualified as a cannabis expert in Kern, San Diego, numerous other California counties, and the State of North Dakota. Qualified as an expert on cannabis cultivation, yields, dosage, usage, processing, patient collective organizations and operations, lawful and illicit distribution, and related issues in various counties previously listed. Examined police files, medical records, financial records, transcripts, photos, videos, audiotapes, weighed and examined forensic evidence visually and by microscope, interviewed defendants, investigated garden sites, heard police testimony and reviewed police training materials. Consulted with other experts. Viewed numerous cannabis gardens. Visited numerous cannabis dispensaries, met with patient collectives throughout the state. Presented findings on *Cannabis Yields and Dosage* at the CME-accredited *Fifth Clinical Conference on Cannabis Therapeutics*. Examined personal indoor and outdoor cannabis gardens in Argentina.
- 2007: Qualified as an expert on cannabis cultivation, yields, dosage, usage, in various counties previously listed. Examined police files, medical records, financial records, transcripts, photos, videos, audiotapes, weighed and examined forensic evidence visually and by microscope, interviewed defendants, investigated garden sites, heard police testimony and reviewed police training materials, familiarizing myself with law enforcement investigative techniques. Consulted with other experts. Viewed numerous cannabis gardens. Visited numerous cannabis dispensaries, met with patient collectives throughout the state. Served on San Francisco DA's cannabis policy taskforce. Member of the faculty of Cannabis College of Oaksterdam University. Gave presentation on medical marijuana regulation to Hawaii State legislators.
- 2006: Qualified as an expert on cannabis odor and detection in federal Northern California district, and in US Courts Martial in Wurzburg, Germany on cultivation, yields, consumption and indicia of intent. Qualified as cannabis expert in California Superior courts of Amador, Fresno, Lake, Humboldt, Los Angeles, Mendocino, Merced, San Bernardino, San Francisco, San Mateo, Santa Clara, Santa Cruz, Siskiyou, Sonoma, and other counties. Qualified as an expert on cannabis packaging, consumption, storage and toxicity in Oregon court. Attended CME-accredited *Fourth National Clinical Conference on Cannabis Therapeutics*, UC Santa Barbara. Examined police files, medical records, financial records, transcripts, photos, videos, audiotapes, weighed and examined forensic evidence visually and by microscope, interviewed defendants, investigated garden sites, heard police testimony and reviewed police training materials, familiarizing myself with law enforcement investigative techniques. Consulted with other experts. Viewed numerous gardens. Visited numerous dispensaries, met patient and collectives throughout the state. Served on San Francisco DA's cannabis policy taskforce.
- 2005: Qualified as cannabis expert in California Superior courts of Los Angeles, Calaveras, Lake, Santa Clara, Santa Cruz, Sacramento, Siskiyou, Solano and Orange counties. Participated in San Francisco DA's medical marijuana advisory group. Received two days instruction at Leiden University, The Netherlands, from the International Association for Cannabis as Medicine conference. Toured the Dutch national medical marijuana garden operated by Bedrocan, B.V. Examined numerous indoor and

outdoor cannabis gardens in and around Amsterdam and medical marijuana gardens in California and Oregon. Examined police files, medical records, financial records, transcripts, photos, videos, weighed and examined forensic evidence visually and by microscope, interviewed defendants, investigated garden sites, heard police testimony and reviewed police training materials, familiarizing myself with law enforcement investigative techniques. Consulted with other experts. Viewed gardens, interviewed growers, sellers and consumers of cannabis throughout the state. Taught a CLE on expert issues involving cannabis at the NORML Legal Seminar in Florida.

- 2004: Authored *Cannabis Yields and Dosage*. Qualified as cannabis expert in the California Superior courts of Humboldt, Alameda, Lake, Yolo, San Francisco, Santa Cruz, Santa Clara, Los Angeles and San Mateo, on issues of cultivation, medical use, consumption, processing, and personal versus commercial intent. Testimony received favorable mention in California Court of Appeals ruling in re *Arbacauskas* [2004 WL 2378862 (Cal.App. 3 Dist.)]. Examined police files, medical records, financial records, transcripts, photos, videos, weighed and examined forensic evidence visually and under microscope, interviewed defendants, investigated garden sites, heard police testimony and reviewed police training materials, familiarizing myself with police investigative techniques. Consulted with other experts. Viewed gardens, interviewed growers, sellers and consumers of cannabis throughout the state.
- 2003: Qualified as cannabis expert in the California Superior courts of Butte, El Dorado, Fresno, Inyo, Los Angeles, Monterey, Nevada, Sacramento, San Mateo, Santa Cruz, Ventura and Yolo Counties. Qualified as cannabis expert in the Southern District of the Ninth Circuit Federal Court. Examined police files, medical records, financial records, transcripts, photos, videos, weighed and examined forensic evidence visually and under microscope, interviewed defendants, investigated garden sites, heard police testimony and reviewed police training materials, familiarizing myself with police investigative techniques. Taught Continuing Legal Education (CLE) for Defense Attorneys of Santa Cruz County. Viewed gardens, interviewed growers, sellers and consumers of cannabis throughout the state. Consulted on SB 420. Discussed medical marijuana policy with DA Terrence Hallinan of San Francisco and DA Paul Gallegos in Humboldt. Consulted with Senator John Vasconcellos office regarding SB 420.
- 2002: Qualified as cannabis expert in the California Superior courts of Los Angeles, El Dorado, Riverside, Sacramento, San Joaquin, Santa Cruz, Tulare and Yolo Counties on issues of cultivation, medical use, consumption, processing, and personal versus commercial intent. Examined police files, medical records, financial records, transcripts, photos, videos, weighed and examined forensic evidence visually and under microscope, interviewed defendants, investigated garden sites, heard police testimony and reviewed police training materials, familiarizing myself with police investigative techniques. Took 12 hours of accredited training in medical marijuana from Institute for Health Professionals, Portland Oregon. Spent three weeks in Holland where I observed at least 12 cannabis gardens and one week in Italy. In both countries I engaged cannabis cultivators in discussion of their gardens, and yields.
- 2001: Testified as a cannabis expert in California Superior courts of Alameda, Del Norte, Orange, San Joaquin, Sonoma and Ventura Counties on issues of cultivation, medical use, consumption, preparation, and indicia of personal versus commercial intent. Heard court testimony by police officers and other experts. Reviewed numerous court transcripts, search warrants, police reports, evidence lists and case files. Examined medical records, forensic evidence visually and under microscope, analyzed photos and videos, interviewed defendants, reviewed police training materials, and investigated garden sites. Testified as cannabis expert in the Sacramento CA federal district court, on issues of cultivation, consumption, and yields. Gave presentation on yields and consumption to Berkeley, CA, Health and Safety Commission. Taught an accredited CLE for Orange County Public Defenders office.

- 2000: Testified as cannabis expert in California Superior courts of Butte, Calaveras, Contra Costa, El Dorado, Humboldt, Napa, Placer, Plumas, San Mateo, Shasta, Siskiyou, Santa Cruz, Sonoma and Stanislaus Counties. Qualified on issues of indoor and outdoor cultivation, crop yields, plant sex, olfactory identification (smell), means and rates of consumption, genetic characteristics, indicia of commercial intent, personal and/or medicinal use of cannabis and cannabis preparations, both smoking and otherwise. Investigated cases and provided expert legal services in numerous other counties. Heard court testimony by police officers and other experts. Received seven hours of California Medical Association-accredited training on medical cannabis. Reviewed court transcripts, search warrants, police reports, evidence lists and case files, familiarizing myself with police investigative techniques. Examined forensic evidence and medical records, analyzed photos and videos, interviewed defendants, provided declarations. Researched all aspects of cannabis cultivation and use. Discussed use patterns with at least 30 medical cannabis patients and numerous doctors. Spent four weeks in Amsterdam, where I designed informational exhibits on cannabis and observed indoor cannabis cultivation, curing and processing. Returned in the fall for 10 days observing and discussing cultivation, processing, marketing and consumption with hundreds of American, Dutch and international growers and consumers.
- 1999: Testified as cannabis expert in California Superior courts of Butte, Calaveras, El Dorado, Humboldt, Lake, Los Angeles, Marin, Placer, Santa Clara, Shasta, Solano and Sonoma Counties on issues of cultivation, yields, commercial intent, joint size, rate of consumption, personal and/or medicinal use of cannabis and cannabis preparations, both smoking and otherwise. Investigated cases and provided expert legal services in Alameda, Stanislaus, Napa, Plumas, Sacramento, San Francisco, San Mateo, Santa Barbara and Santa Cruz Counties. Reviewed numerous court transcripts, search warrants, investigator's reports and case files, familiarizing myself with police investigative techniques. Heard court testimony by police officers and other experts. Examined forensic evidence, analyzed photos and videos, inspected garden sites, interviewed witnesses and defendants, provided declarations and reports. Examined numerous California patients' legal cannabis gardens. Discussed use patterns with at least 150 medical cannabis patients and numerous doctors. Read numerous studies and reports by the DEA, NIDA, and other federal government agencies regarding the cultivation, miscellaneous effects, and personal consumption of cannabis. Attended numerous conference presentations on medical marijuana and industrial hemp. Went to the Netherlands to research and monitor legal cannabis cultivation, breeding, distribution and consumption. Examined numerous cannabis gardens in Holland, Germany and Spain. Traveled to Germany to study legal industrial hemp fields and processing facilities, the Hanf (hemp) Museum, and CannaBusiness, an international hemp and cannabis business expo.
- 1998: Testified as qualified expert in the California Superior courts of Butte, Humboldt and Tuolumne Counties regarding cannabis cultivation, yields, plant sex, maturity, preparation, quality, usability, commercial intent versus personal and/or medicinal use, consumption rates, genetics and cannabis preparations, both smoking and otherwise. Reviewed case documents, physical evidence and photos. Investigated cases and/or filed declarations in Alameda, Marin, Merced, Nevada, Placer, San Diego, San Mateo, Santa Cruz, and Sonoma Counties. Examined and evaluated numerous California patients' legal cannabis gardens. Attended numerous conference presentations on medical marijuana and industrial hemp. Read and analyzed *Cannabis Yields*, a cultivation and yield report by the federal DEA and numerous studies by NIDA, and other government agencies regarding the, miscellaneous effects, and personal consumption of cannabis. Discussed use patterns with at least 250 medical cannabis patients and numerous doctors.
- 1997: Testified as qualified expert in the California Superior court of Marin County regarding crop yields, medical marijuana and personal consumption. Reviewed case documents, physical evidence and photos. Authored *Hemp for Health*. Researched medical literature, visited and surveyed patient gardens. Visited and surveyed patient buyers clubs and discussed medical use of cannabis with at least

- 300 patients and 20 doctors. Read at least 100 abstracts, studies and peer reviewed medical literature regarding the therapeutic utility of cannabis. Chapters cover cannabis history, botany, pharmacology, clinical research, homeopathy, Ayurvedic medicine, herbalism, therapeutic potential, cannabinoids, side effects, safety tips, recipes for smoked and eaten preparations, and specific symptomatic relief, including diagrams and reference tables, topical applications, nutrition and holistic health care. Attended CannaBusiness Expo, in Germany. Visited patient gardens and buyers clubs throughout California, following passage of Prop 215. Conducted the first survey of state dispensaries at the request of Assemblyman Senator John Vasconcellos office. Consulted and participated in a legal outdoor cannabis harvest in Switzerland of at least six hectares of plants grown by subcontractors for CannaBioLand, a legal commercial enterprise. Selected and harvested cannabis based on sex, ripeness and mold infestation. Participated in sexing, selecting, cutting, curing, manicuring, and otherwise preparing herb for consumption. Investigated legal cannabis outlets throughout Switzerland. Addressed a hearing of the National Academy of Science on medical marijuana.
- 1996: Attended numerous scientific presentations and surveys of scientific studies regarding specific medical and personal use of cannabis including pharmacology and symptomatic relief. Discussed use patterns with at least 400 medical marijuana patients and numerous doctors. Monitored legal cannabis indoor cultivation projects at Sensi Seed Bank, the Hash-Marijuana-Hemp Museum, and at Positronics, b.v., in Amsterdam. Observed and interviewed patients, doctors, caregivers and cannabis culture in the US, Canada and Europe.
- 1995: Monitored legal cannabis indoor cultivation projects at Sensi Seed Bank, the Hash-Marijuana-Hemp Museum, and at Positronics, b.v., in Amsterdam. Discussed medical cannabis and use patterns with at least 300 patients and numerous doctors.
- 1994: Qualified as expert witness in the California Superior court of Madera County on industrial hemp and hempseed. Studied and consulted on Hemp Agrotech's research crop of industrial hemp grown in the Imperial Valley (California) in conjunction with the US Department of Agriculture research station. Met and had informal consultations with owners of Hempline, the first Canadian group to grow a research crop of industrial hemp in North America. Toured hemp stores and museums throughout the US and Canada. Monitored legal cannabis indoor cultivation projects at Sensi Seed Bank, the Hash-Marijuana-Hemp Museum, Positronics, b.v., and at numerous other cannabis gardens located in Amsterdam. Discussed medical cannabis and use patterns with at least 100 patients and numerous doctors.
- 1993: Authored *Hemp: Lifeline to the Future*, a comprehensive study of the cannabis plant, including a chapter on cannabis botany. Read at least 100 abstracts, studies and peer reviewed medical literature regarding the therapeutic and industrial utility of cannabis. Spent six months in The Netherlands where I designed and arranged informational exhibits and curated the Hash-Marijuana-Hemp Museum in Amsterdam; collected items, prepared and labeled informational displays and explanatory materials, produced handouts for visitors, maintained a library about cannabis, supervised a legal indoor cannabis "grow room" exhibit featuring hydroponic systems, soil, plants from seed and clones, sexing to maturity, harvest, cure and manicure. Utilized various lighting systems and cycles; evaluated growing techniques and yields, planting densities, and pruning patterns; advised in the design of and adjustments to the system and its operation. Field research included investigation and discussion of social use, customs, commercial sales, consumption patterns, medical case histories, regional cultures, kif and hash making, evaluating quality and use of herbal cannabis. Experimented with raw stalk, fibers, hempseed foods and cannabis medicinal preparations including derivatives, tinctures and poultices. Traveled through France, Holland and Hungary researching legal commercial hemp farms and processing. Made a national tour of Dutch cannabis outlets and interviewed the proprietors, staff and clientele. Monitored legal cannabis indoor cultivation projects at Sensi Seed Bank, the Hash-Marijuana-Hemp Museum, and at Positronics, b.v., in Amsterdam. Discussed use patterns with at least 200 medical marijuana patients.

- 1992: Spent six weeks in The Netherlands working at “Cannabis Castle,” a primary facility of Sensi Seed Bank, a legal Dutch cannabis research and breeding company. Participated and monitored all aspects of cultivation from starting seedlings and rooting clones to sexing plants, genetic selection and pollination, hybridization, seed selection and processing for indoor, outdoor and greenhouse varieties. Monitored flower development, resin enhancement, yields, curing, processing and manicure. Researched various genetic materials for characteristics. Met with researchers at Wageningen University (Netherlands) research facility on industrial and horticultural aspects of cannabis hemp. Made a national tour of regional Dutch cannabis outlets and interviewed the proprietors, staff and clientele.
- 1989-2002: Ongoing cannabis research, reviewing scientific and media reports, interviewing more than one thousand American, Dutch and international consumers and growers on production and consumption.

Formal Education

- 2002: 12 hours accredited training in medical marijuana, Institute for Health Professionals, Portland Oregon
- 2000: 7 hours California Medical Association-accredited training at the “Cannabis Therapy: Science, Medicine and the Law” symposium at Cal State University San Francisco.
- 1995: 20 hours accredited training in cannabis botany, agriculture, horticulture, pharmino-chemistry, industrial technologies and medical use at Biofach international symposium, Nova Institute, Frankfurt Germany.
- 1993: 18 hours accredited training in cannabis botany, agriculture, horticulture, pharmino-chemistry, industrial technologies, medical use and policy at Journee du Cannabis, Paris, France.
- 1980: Bachelor’s degree. Fine Arts / Communication, California State University Dominguez Hills, Los Angeles California. Graduated *Magna cum laude*. Biology course included botany.
- 1973: Associate’s degree in Humanities / Fine Arts, Frederick Community College, Frederick Maryland. Graduated *Cum laude*. Biology course included botany.
- 1967-69: Attended Maryknoll Catholic Seminary, Chesterfield, Missouri.

Books authored or assisted

- 2004: *Cannabis Yields and Dosage*, revised and expanded 2005, 2007.
- 2001: Second edition of *Human Rights and the US Drug War* (Creative Xpressions). Hemp for Health translated into Portuguese as *Hemp: O uso medicinal de maconha*.
- 2000: Revised printing of *Shattered Lives: Portraits from America’s Drug War* (Creative Xpressions).
- 1999: Contributed to revised *The Very Best of Sinsemilla Tips* (New Moon). Co-authored *Human Rights and the US Drug War* (Creative Xpressions).
- 1998: *Hemp for Health* translated *Heilpflanze Haschisch* (German, Knauer), and *Cannabis para la Salud* (Spanish, M. Roca). Co-authored *Shattered Lives: Portraits from America’s Drug War* (Creative Xpressions).
- 1996: Authored *Hemp for Health* (Inner Traditions), reviewing scientific data on medical, physiological and psychological effects of cannabis. It discusses medical cannabis in allopathy, homeopathy, herbalism and Ayurveda; THC and other cannabinoids, hempseed nutrition, uses of seed oil, holistic and ecological value of hemp as a restorative resource. Bibliography, footnotes and appendices. *Hemp, Lifeline to the Future* Australian edition published; *Cannabis, 1 mille usi di una pianta miracolosa*. (Italian, Carravecchi)
- 1995: Contributed portions on the development of the modern hemp industry and fuel potential of industrial hemp to *The Great Book of Hemp*, by Rowan Robinson (Inner Traditions).
- 1994: Contributed a chapter on market potentials to *Hemp Today* compilation (Quick American).
- 1993: Authored *Hemp, Lifeline to the Future* (Creative Xpressions), a comprehensive review of the industrial, medicinal and social / spiritual applications of cannabis with technical data on how to grow

and process cannabis, its history, commerce, technologies, botany, ecology, cultivation and medical uses. Contributed chapter to *Le Premier Journee Internationale du Cannabis* (French: Lezard).

1990: Designed and edited *The Emperor Wears No Clothes*, by Jack Herer (Hemp Publishing).

Legislative testimony, consultation, teaching, conferences, lectures, symposia

2005 - present: San Francisco District Attorney's Cannabis Advisory Panel

2004: Testified before the City Council of Oakland, the Board of Supervisors of Humboldt County.

2003: Testified before the County Board of Supervisors for the counties of Kern and San Francisco, Oakland Public Safety Committee. Taught CLE seminar for Santa Cruz Criminal Defense Attorneys.

2001: Presented expert testimony and prepared displays on issues of cannabis cultivation and consumption and presented a report to Berkeley Public Health and Safety Commission; guest lectured in political science at University of California, Berkeley. Consulted with Sonoma Alliance for Medical Marijuana in developing guidelines adopted by County of Sonoma law enforcement.

2000: Keynote speaker on medical marijuana at Alameda Medical Group staff dinner. Guest lectured at Mills College. Presented expert testimony for the City of Martinez (CA) on the federal IND medical marijuana program, garden yields and consumption. Presented data on medical marijuana use and cultivation at the Drug Policy Foundation conference, Washington DC. Gave presentations at Santa Cruz Industrial Hemp Expo (CA). Gave two presentations at Cannabis College (Amsterdam).

1999: Guest lectured at Mills College; gave presentations at University of California Davis Forum, UC Berkeley Global Crisis Solutions Conference, CannaBusiness (Germany), Cannabis College (Netherlands), Natural Products Expo, and Santa Cruz Industrial Hemp Expo.

1998: Taught cannabis at the Omega Institute (NY). Testified at National Academy of Science / Institute of Medicine hearings on medical marijuana (Irvine). Presented report on medical cannabis to SSSP sociologists convention. Gave presentations at the Hemp Industries Association convention, Santa Cruz Industrial Hemp Expo, VisionQuest, State of the World Forum and National Organization to Reform Marijuana Laws (NORML). Debated former DEA head Peter Bensinger at Cal State University, Northridge.

1997: Participated in legislative advisory panel for California medical marijuana research bill SB 535. Supported legislative efforts on industrial hemp bills in 12 state legislatures. Taught classes on medical cannabis at Learning Annex, Five Branches Institute, and California legal patient groups. Lectured on hemp at Eco Expo, Natural Products Expo, and on cannabis research at the Drug Policy Foundation (DPF) conference plenary session.

1996: Consulted on hemp legislation with State Representatives Fred Maslack of Vermont and David Tarnas of Hawai'i. Authored the industrial hemp plan for the Jamaican government). Coordinated petitioners for California medical marijuana initiative, Prop. 215 (passed). Testified at Oakland City Council and Contra Costa County Supervisors on medical cannabis, regulations and options. Lectured at Stanford University. Lectured at Eco Expo and Whole Life Expo (CA). Participant in State of the World Forum (CA). Panelist in DPF conference (Washington DC) plenary session on medical cannabis.

1995: Met with European Cities on Drug Policy staff to discuss the Frankfurt Resolution on cannabis policy. Testified at Colorado State Senate Agriculture Committee hearing on economic and agricultural value of low-THC industrial hemp as a farm crop, European hemp regulations and subsidies, infrastructure and other commercial aspects, and genetic and environmental influences that maintain the non-drug characteristic of industrial hemp. Panelist in DPF conference plenary session on hemp. Spoke at Land, Air and Water legal conference (Oregon), Chapman University (CA), Whole Earth Expo (CA), Winnipeg University (Canada), European Cannabis Consumers Organization organizing conference (Netherlands). Attended four day *Biorohstoff Hanf* symposium (Nova Institut, Frankfurt, Germany).

1994: Had discussions with Eric Fromberg, head of The Netherlands National Institute on Alcohol and Drugs, and other Dutch officials regarding their policy of tolerance, regulation and control of cannabis

distribution. Panelist in ACLU drug policy forum (Los Angeles CA). Chapman University (CA). Presented hemp seminars throughout Holland and the US.

- 1993: Presenter at *Le Premier Journee Internationale du Cannabis* (Paris, France). Had discussions with Eric Fromberg, head of the Dutch National Institute on Alcohol and Drugs, and other officials regarding their policy of regulation and control of cannabis distribution.
- 1992: Testified on hemp development and regulatory options at the US Congressional Hearings on Improving the Operations and Activities of the United Nations (Los Angeles, CA).
- 1991: Consulted with Senator Joseph Galiber (NY) to develop separate industrial hemp and cannabis bills. Guest lectured at University of Southern California (USC) program for substance abuse counselors.

Organizational research and development

- 1994-present: Founding member, first president, multi-term board member and currently a member of the Hemp Industries Association (HIA), the trade group for companies marketing legal hemp products.
- 1990-present: Business consultant to hemp businesses including American Hemp Mercantile, Hemp-Flax, All Around the World Hemp, Crop Circle Clothing, and The Peebler Group.
- 1988-present: Director of the Business Alliance for Commerce in Hemp, which researches and develops information on applications of cannabis. Prepared educational materials, analyzed international laws controlling hemp production, identified sections of customs and federal regulations that allow businesses to produce and market non-drug hemp products.
- 1988-present: Director of the Family Council on Drug Awareness, which analyzes marijuana research.

Some Honors and Awards

- 2004: Achievement in Citizen Activism, from NORML
- 2002: Strathmore's Who's Who.
- 2001: Strathmore's Who's Who. Lindesmith Center "Robert Randall Award"
- 2000: San Francisco *Bay Guardian* Local Hero Award. Hemp Awareness Group Award
- 1998: Hemp Industries Association President's Award
- 1991: Long Beach Area Citizens Involved Achievement Award
- 1980: Who's Who in American Colleges and Universities; 1972: Who's Who in American Junior Colleges
- Born: March 10, 1953.