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PERSONAL: Born: March 14, 1958 in Rochester, Minnesota
Married to Konstance Arnold-> Andrew William (11/26/91) and Laura Ellen [Martin](6/24/96)
Licensed in Alaska (AA2439), {prior: Minnesota (29,301), Indiana (01036655)}
Certified: American Board of Ophthalmology 1990
NPI: 1942293428, UPIN: E36087, Medicaid: MD1250 DEA: aa3239022

EDUCATION: Sehome High School, Bellingham, Washington (1971-1976)
University of Washington, Seattle, Washington (1976-1977)
University of Alaska, Fairbanks, Alaska (1977-1980) B.S. Chemistry *magna cum laude*
Yale University School of Medicine, New Haven, Conn. (1980-1984) M.D.
Mayo Graduate School of Medicine, Rochester, Minnesota
Internship (medicine, neurology, pediatrics) (1984-1985)
Ophthalmology Residency (1985-1988) Chief Resident 3/88 to 7/88.
Indiana University, Indianapolis (Helveston, Ellis & Plager)
Pediatric Ophthalmology Fellowship (1988-1989)

WORK: Commercial Fisherman (salmon, halibut, herring) Alaska (1976-81)
Resident Advisor, Stevens Hall, University of Alaska (1978-80)
Arnold Custom Knives (1975-present) - Arnold Custom Reflex Hammers and Occluders (1984-89)
Ophthalmic Associates Pediatric Ophthalmologist (September 1989-2013)
Secretary (91-95), Vice President (1/96-06), President (07- 8)
Alaska Summer Emergency Ophthalmology Program, Coordinator (1992-)
Glacier Medical Software, Inc, Lead Concept Designer (2005-) President (2010-)
Alaska Children's Eye & Strabismus;- (2014-), President (2014-2017)
PDI Check, LLC (2017-), President (2018-), patent pending

MEMBER: Alaska State Medical Association (1989-2019)
Alaska Eye [Education] Meeting (director) 1990-
American Academy of Ophthalmology, Fellow 1991
American Academy of Pediatrics- Ophthalmology Section Fellow (2010-)
American Association for Pediatric Ophthalmology and Strabismus, Fellow 1992-
Journal of Pediatric Ophthalmology and Strabismus Editorial Board (2002-)Top 10 (2019,20)
Clear Water Church (2018-), Myanmar Christian Fellowship (2015-)
Alaska Surgery Center (2014-), Physicians Advisory Board (2015-), Building Committee (2019-21)
ROP TRUST Pediatric Ophthalmology Advisory Panel 2021-

HONORS: Elks Club scholarship (1976), *magna cum laude*, Phi Kappa Phi, Joel Wiegert
graduating man & chemistry awards and captain of ski team, Univ. of Alaska (1980)
Executive committee and editor, Yale Journal of Biology and Medicine (1980-84)
National Children's Eye Care Foundation research grant #88-R-001, 1988-89.
Listed in Best Doctors in America (1996, 2009, 13-16, 17-18, 19-20); <http://www.groupz.net/BestDoctors>
Alaska Infant Learning Community Service Award 2000
Lions Club "Melvin Jones Fellow" 5/11/00, 4/24/2010
PEDIG ATS2 (5/7/01, 11/01), ETS-1 (7/04) Recruitment Award
AAPOS: Honor Award (2000), Senior Honor Award (2014), Lifetime Achievement Award (2021)
Anchorage Education Association: "Friend of Education 2007-8
Free Burma Rangers Meritorious Service Award 8/17/2014, Service medal 16-years 2016.
AAP Special Achievement Award (for ABCD) 11/13/2018

INTERESTS: Cross country ski racing, Bible Study, remote eye missions, personal computing,
mountaineering, art, wood-working, meat hunting, cooking and video-photography.

PUBLICATIONS: *H-index 22 (scopus)*

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- Arnold RW: Wood injurious to human health. A manual (book review) Yale Journal of Biology and Med. 55(2), 1982.
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- Arnold RW: Diving and Asphyxia (Book Review). Yale Journal of Biology and Med. 57: 715-6, 1984
- Arnold RW: "Modifications in the vasomotor component of the human diving response," M.D. Thesis (Yale) 1984.
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- Arnold RW: Quantification of afferent pupillary defect by double polarized filter. (letter), Arch Ophthalmol 108:1666-1667, 1990.
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JAAPOS Vol. 14, Issue 1, e34 February 2010
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Pletnikoff, L, Arnold RW: Implementation and yield of photoscreening in Bristol Bay Alaska: High penetration pediatric vision screening in the Alaska Bush. ICCH12, Nuuk, Greenland, September 8-14, 2003. (12th International Congress on Circumpolar health)

Arnold RW: Red eyes and Vision Screening. APS Workshops for School Nurses, Service High, Anchorage, October 9, 2003.

Lang D, Blackledge J, and Arnold RW: The influence of Pacific Race, Sex and Ability to cry at 31-week exam on Threshold ROP, Third International Symposium on ROP, An Update on ROP from Lab to Nursery (Poster), Anaheim, California, November 13, 2003.

Arnold RW: Does Optic nerve Hypoplasia exacerbate Retinopathy of Prematurity? Third International Symposium on ROP, An Update on ROP from Lab to Nursery (Poster), Anaheim, California, November 13, 2003

Pletnikoff L, [Arnold R]: Implementation and yield of photoscreening in Bristol Bay Alaska. High penetration pediatric vision screening in the Alaska Bush. Arctic Health Sciences Seminar, Institute for Circumpolar Health Studies, American Society for Circumpolar Health, (UAA MPH Program), 3:30 pm, Anchorage, January 30, 2004.

Arnold RW: Photoscreening plus patched HOTV acuity study in the Anchorage School District, ASD Administrative Board Room, February 4, 2004.

Arnold RW: Vision and Learning, APS School nurse lecture, Service High School, Anchorage, February 12, 2004.

Arnold RW and Stark L: Orientation to ASD-ABCD Pre-K through First Vision Screening, Service High School, Anchorage, February 12, 2004.

Arnold RW and Stark L: Orientation to ASD-ABCD Pre-K through First Vision Screening, East High School, Anchorage, February 18, 2004.

Arnold RW and Stark L: Orientation to ASD-ABCD Pre-K through First Vision Screening, King Career Center, Anchorage, February 19, 2004.

Tulip H, Norman M, Arnold RW: The oculocardiac reflex: influence of re-operation, neurologic status and blood pressure (Poster), AAPOS Annual meeting, Washington, DC, March 27, 2004.

Rosen CE, Arnold RW: Ophthalmic Trauma from the perspective of orbit and strabismus, Connoco Phillips Safety meeting, Anchorage, May 26, 2004.

Arnold RW: Ophthalmic Surgery- Perspectives for perioperative nursing. Providence Hospital, Anchorage, July 1, 2004.

Coopes BJ, Arnold RW: Shaken Baby Syndrome: Retinal manifestations. Pediatric M&M Conference, Providence Hospital, Anchorage, September 23, 2004.

Arnold RW: Neurodevelopmental Issues and the Eye. Pediatric Neuro Conference, Providence Alaska Medical Center, October 1, 2004

Arnold RW: Typical and Terrible Red / Sore eyes in Kids. Alcon Pediatric Lecture, Sullivans' Steak House, Anchorage, October 5, 2004.

Arnold RW: Amblyopia Detection. Alaska Family Practice Residency Lecture, October 8, 2004.

Arnold RW: Compared chalazion prophylaxis and "Does massage work in NLD?" PEDIG section meeting, AAPOS Annual Meeting, Orlando, Florida March 10, 2005.

Arnold, RW, the AAPOS Vision Screen Committee: Pediatric Vision Screening (Workshop), AAPOS Annual Meeting, Orlando, Florida March 11, 2005.

Arnold RW, Stark L, Leman R, Arnold KK, Bates J, Armitage MD: Tent photoscreening and patched acuity by school nurses: validation of ASD-ABCD. AAPOS Annual Meeting, Orlando, Florida March 12, 2005.

Leman R, Bates J, Stark L, Arnold KK, Arnold RW: Photoscreening and patched HOTV acuity in schools: Implementation and Implications of ASD-ABCD (Poster). National Association of School Nursing, Washington, DC, July 1, 2005.

Arnold RW: Role of Pediatricians and FP (Screening for preclinical Vision loss) American Orthoptic Congress, Chicago, Ill, October 16, 2006.

Arnold RW: Stop Spectacles Safely and Chalazia Care, PEDIG, Tampa, Florida, January 21, 2006.

Arnold RW: Amblyopia- Emerging guidelines and Corneal Disease, Pediatric Grand Rounds, ARH Anchorage, AK, February 21, 2006.

Arnold RW, Jacob J: Relational Database Enhances ROP Scheduling, Follow-Up, Record-Keeping and Education, AAPOS, Steamboat Colorado, March 19, 2006

Clausen M, Arnold RW: Update on enhanced patched acuity, VisionQuest and Tent photoscreening. MatSu School Nurses Meeting, Machetanz Conference Center, Wasilla AK, April 19, 2006.

Arnold RW, Clausen M, Regan J: Update on sensory and objective vision screening in schools, Anchorage School Nurses meeting, Capt Cook Hotel, Anchorage, April 22, 2006.

Arnold RW: Influence of Pacific Race on ROP and vision, Distict VIII Neonatology, Alyeska Prince, Alaska, June 30, 2006.

Arnold RW, Schmidt C, Clausen M: Vision Screening and PlusOptiX S04 in Alaska, PAMC Anchorage, August 17, 2006.

Arnold RW: Valid Efficient Pediatric Amblyopia Screening, Providence MatSu Health Care, Wasilla, August 30, 2006.

Arnold RW: Amblyopia- Emerging guidelines and External Disease. Alaska Nurse Practitioner Association 23rd Annual, Downtown Marriott, Anchorage, Alaska October 6, 2006.

Arnold RW, Clausen MM: Amblyopia Elimination: The Best We Can Do; Pediatric Grand Rounds, Alaska Regional Hospital, Anchorage October 31, 2006.

Arnold RW: RadioOpaque "Wrights" Superior Oblique Tendon Expander. Pre-AAO Pediatric Eye meeting, Cesar's Palace, Las Vegas, NV November 10, 2006.

Arnold RW, Retinopathy of Prematurity Scheduling and Recording Software: Staff and Parent Initial Acceptance (Poster) AAO PO371 Las Vegas, 11/12/06

Arnold RW, Clausen MM, Ryan HA, Leman RE, Armitage MD: Predictive Value of Inexpensive Digital Photoscreening (AAO Talk PA075), Las Vegas, 11/13/06

Eby E, Aleshire J, Arnold RW: Amateur Iritis Detection- Initial Parent Seminar: Ophthalmic Associates, Anchorage, 1/27/07.

Arnold RW: Vision Screening Update: Providence Alaska Family Practice Residency conference, Anchorage, 2/2/07

Arnold RW: Terminal Amblyopia Care: Safely Stop Spectacles protocol proposal, PEDIG, Tampa Florida, 2/11/07.

Kirk VG, Clausen MM, Armitage MD, Arnold RW: Treatment outcomes following toddler photoscreening, AAPOS, Seattle, Washington, April 12, 2007.

Clausen MM, Armitage MD, Arnold RW: Supply and educate gets patched HOTV acuity testing done (Poster), AAPOS, Seattle, Washington, April 12, 2007.

Arnold RW, Donahue SP, Hered RW: Rationale and technology for vision screening (Workshop), AAPOS, Seattle, Washington, April 13, 2007.

Eby E, Arnold RW: Iritis detection by parents. Ophthalmic Associates, Anchorage May 22, 2007

Arnold RW, Aleshire J, Eby E: Iritis detection for Family Practice. Providence Family Practice Residency Noon Lecture. May 23, 2007

Arnold RW: Ocular manifestations of Child Abuse. Mat Su Medical Center Grand Rounds, Wasilla, May 29, 2007.

Arnold RW: ROP- Nature and Nurture. NIC/Q Pod Visit, The Childrens Hospital at Providence, June 11, 2007.

Arnold RW: NICU ROP Exam Process, NIC/Q Pod Visit, NICU Providence, June 12, 2007.

Arnold RW, West E: Enhanced vision Screening for school nurses: Amblyopia- blurred Vision – Cure – Detection. ASD Inservice, Anchorage, August 17, 2007.

Arnold RW, Palin S, Parnell, S, Kirk VG, Leman R, ABCD: The ABCD Launch- Statewide elimination of Amblyopia. [TCH@P](#), Anchorage, August 29, 2007

Christiansen SP, Chandler DL, Holmes JM, Arnold R, Birch EE, Melia M, Repka MX, Suh DW, Ticho BH, Wallace DK, PEDIG: Alignment instability in infantile esotropia. (poster), AAPOS, Washington DC, April 4, 2008.

Pratt L, Arnold RW: Muscle tension and oculocardiac reflex: influence of duration and second muscle. (poster), AAPOS, Washington DC, April 5, 2008.

Arnold RW, West E, Arnold K: Amblyopia reduction in Anchorage and Alaska through objective and sensory school screening. Anchorage School District Nurses; September 9, 2008.

Arnold RW: photoscreening time is ready, Pediatric Subspecialty Day, AAO, Atlanta November 8, 2008

Arnold RW: Practical Portable Clinical Photoscreening, American Orthoptc Association, AAO, Atlnata, November 9, 2008

Arnold RW: Review the Kirk Article, Editor's Choice, AAO, Atlanta, November 10, 2008.

Silbert, David I, Matta NS, Arnold RW, Singman EL: Evaluation of the Plusoptix S04 photoscreener and the MTI photoscreener compared to comprehensive pediatric ophthalmology examination (Poster), AAPOS, San Francisco April 18, 2009.

Arnold RW: Practical Electronic Medical Record Comparison (Workshop), AAPOS, San Francisco April 19, 2009.

Arnold RW, ONeil J: practical experience and future of photoscreening, PediaVision Reception at AAPOS, San Francisco, April 19, 2009.

Matta NS, Arnold, RW, Singman EL, Silbert DI: What do we do when the film runs out? Comparing the PlusOptix to the MTI Photoscreener, World congress of Pediatric Ophthalmology, Poster, Barcelona, Spain September 12-13, 2009.

Silbert, DI, Arnold RW, Matta NS, Singman EL: What do we do when the film runs out? Comparing the PlusOptix to the MTI Photoscreener, European Strabismological Association. Belgrade Serbia, October 4, 2009.

Arnold RW: Management of Pediatric Red eye, and the Iritis Model. Alaska Family Practice Residency Noon Lecture, January 14, 2010, Anchorage, Alaska

Arnold RW: Burma Vision, Alaska Eye Meeting, Anchorage, Alaska April 7, 2010.

Arnold RW, Eby E, Aleshire J, Arnold AW: Home monitoring of JRA iritis; Feasibility of a model. AAPOS (poster), Orlando, Florida, April 17, 2010.

Arnold RW: Eliminate Amblyopia in Alaska- Presentation to Ward Hinger and Stephanie Birch, 17th floor Robert Atwood Building, Anchorage, July 12, 2010.

Arnold RW: Vision Screening, optics, refraction and optical dispensing. FBR medic training, Tha Uh Wah Camp, Kawthoolei Jungle School of Medicine, October 25-November 2, 2010.

Arnold RW, Tulip D: Remote vision screen plus provision of spectacles eliminates blindness. AAP Grand Rounds, Anchorage, Alaska (ARH), December 14, 2010.

Arnold RW: Vision screening, optics, refraction and optical dispensing. FBR Medic Training, Leh Tong Ku, Thai-Burma Border, March 7-11, 2011.

Arnold RW: High prevalence of AAPOS amblyopia risk factors, AAPOS. San Diego. March 31, 2011.

Arnold RW: Burma Vision. Sons of Norway, Anchorage. October 13, 2011.

Arnold RW: Eye trauma. Flight Nurse Conference, Alaska Regional Hospital. November 3, 2011.

Arnold RW, Mortensen C: Red eye and iritis, Alaska Family Practice Residency noon conference, November 15, 2011.

Arnold RW: AAPOS, Modified, portable A-scan from an "immersion" USB B-scan (poster). March 25, 2012, San Antonio, Texas

Arnold RW, Trujillo A, Trujillo C, McAllister, R: Eye Lecture and Practical Teaching-3 hours, Alaska Family Practice Residency, Anchorage, Ak, June 29, 2012.

Arnold RW: Burma Vision method for remote missions. Christian Medical and Dental Association, Providence W Aud. Anchorage, Alaska August 25, 2012.

Arnold RW, Nay Hser: Basic eye anatomy and vision screening; FBR Medic Training, Bung Klung, Thai-Burma border, March 12, 2013

Nay Hser, Arnold RW, Therin, M (D): Vision screening, acuity and optics, FBR Medic Training, LehTongKoh, Thai-Burma border, March 14, 2013.

Arnold RW, Armitage MD: iCheckKids, SPOT, iScreen and PlusoptiX performance in a high-risk, young pediatric eye practice. AAPOS. Boston, Mass., April 6, 2013. (Discussed by Sean Donahue, MD, PhD)

Arnold RW: Ocular manifestations of Neurofibromatosis. NF Symposium Alaska. May 19, 2013, Providence Alaska Medical Center.

Arnold RW, Jacob J, Matrix Z: A cloud-based EMR for ROP exams optimizes scheduling, tracking and documentation of ROP exams and treatment (Poster), Vermont Oxford Network, Chicago, October 5-6, 2013.

Arnold RW, Armitage MD: Practical Validation of Plusoptix S12, iScreen, SPOT and iCheckKids. American Academy of pediatrics, Orlando, Florida, October 25 and 28, 2013 (Poster)

Matta N, Silbert D, Arnold R.: Comparison of the iScreen to the MTI photoscreener for the detection of amblyopia risk factors in children. 36th meeting of the European Strabismological Association, Marseille France, September 4-7, 2013.

Arnold RW: Practical Photoscreening in Alaska. All Alaska Pediatric Symposium. Girdwood, Alaska November 2, 2013.

Kirk SL, Armitage MD, Arnold RW: Calibration of a new remote autorefractor, the 2WIN compared to PlusoptixS12 and SPOT with amblyopic patients. Poster, AAPOS, Palm Springs, CA, April 5-6, 2014.

Tarczy-Hornoch K, Arnold RW, Bininbaum G, Droste PJ, El-Dairi M, Nallasamy S, Pineles SL, Quinn G: Research Committee Workshop: I want to do a research study. Where do I begin? AAPOS Palm Springs, CA. April 4, 2014.

Arnold RW: What Good is Light? Commencement Address, Grace Christian School. May 13, 2014 at West High Auditorium, Anchorage, AK.

Arnold RW: Nystagmus. Pediatric Grand Rounds, Cancer Conference Room Providence, September 2, 2014.

Arnold, RW: Remote spectacles and optics. FCC Missions outreach, September 11, 2014 Anchorage, Alaska

Arnold RW: Nystagmus. ACES staff noon lecture, September 16, 2014, Anchorage, Alaska

Arnold RW, Wedell Darcy, Pei, Ron: Photoscreening with a Smart phone. September 23, 2014, Anchorage, Alaska.

NayHser, Arnold RW: Detection and treatment of strabismus and amblyopia risk factors using photoscreeners in a Burma war zone. IPOS IV Pre-Academy Meeting, Chicago, Illinois, October 17, 2014.

Arnold RW, West E, Winkle RK, Grendahl RG, : Eliminate Amblyopia Conference. Providence West Auditorium, Anchorage Alaska. January 21, 2015

Arnold RW: Strabismus and cataract surgery. Staff training. Alaska Children's EYE & Strabismus, Anchorage. 1/26/2015.

Arnold RW: Strabismus surgery, Oculocardiac reflex and Burma cataracts. Staff education. Alaska Surgery Center, Anchorage February 3, 2015.

Haering C, Arnold RW: Multi-tool instrument decreases complications with nasolacrimal intubation. E-Poster. AAPOS, New Orleans April 26, 2015.

Silbert DI, Arnold RW: Do we need to directly detect astigmatism when photoscreening for ARFs? E-Poster. AAPOS, New Orleans April 26, 2015.

Arnold RW, Silbert DI: Efficacy of a mobile smart phone vision-screening device with automated image-processing analysis in the evaluation of amblyopia risk factors in preschool children. AAPOS New Orleans, April 28, 2015.

Arnold RW: Photoscreeners Compare and Contrast. In Workshop "Use of Digital Photoscreeners to Detect Amblyopia Risk Factors (ARFs), A Multidisciplinary Evidence-Based Approach; Care and Cost Implications. By Silbert DI, Sponsored by Gobiquity. AAPOS, new Orleans April 28, 2015.

Arnold RW: ROP. Staff Training- Alaska Childrens EYE & Strabismus, Anchorage, Alaska 7-10-2015

Smith K, Arnold RW: Vision and Learning. Pediatric Grand Rounds, ANMC primary Care, Anchorage, Alaska January 19, 2016.

Bond AN, Beerle B, Arnold RW. Dexmedetomidine sedation produces more oculocardiac reflex during strabismus surgery, e-Poster, AAPOS Annual Meeting, Vancouver, BC, Canada April 6-10, 2016.

Arnold RW: ROP and NICU Staff: How to Thrive. NICU nurse conference, Providence Hospital, Anchorage, 4/26/2016.

Arnold RW, Gung Zaw: "Generosity as Stewards (Lk 16:1-9 and 2 Cor 9:8-15) Myanmar Christian Fellowship, Anchorage 5/1/2016.

Arnold RW: Devotion from Luke 4:18- oppressed, blind, poor and imprisoned. Free the Oppressed board meeting, Lake George, Colorado July 9, 2016.

Arnold RW: Arming local providers to do "Spectacular" work. Christian Ophthalmology Society meeting, Portland, OR August 4, 2016.

Arnold RW, Gung Zaw: Always be Prepared (1 Pe 3:15), Myanmar Christian Fellowship September 11, 2016.

Arnold RW: Nystagmus- Classification, Characterization and Care. Latouche Eye Conference for Optometrists, Anchorage, November 29, 2016

Smith K, Arnold RW, Rein Kimala: Update on Childhood vision Screening from developmental viewpoint, Programs for Infants and Children, Anchorage. November 30, 2016.

Arnold RW, Gunt Zaw: Gate and Shepherd (John 10:7-16) Myanmar Christian Fellowship. Anchorage December 4, 2016.

Arnold R and Toh: Introduction to vision, optics and refractive dispensing. Jungle School of Medicine Kawthoolei, Karen State, Burma, December 27, 2016.

Arnold AW, Grendahl RL, Winkle RK, Arnold RW: Direct measurement of optic nerve size with ultrawide digital camera, (Poster), AAPOS, Nashville, April 2-6, 2017.

Arnold RW, Biggs R, Beerle, B: Dexmetadomidine (Precedex) increases oculocardiac reflex (e-Poster), AAPOS, Nashville, April 2-6, 2017.

Arnold RW, Gunt Zaw: "Rolling Stone" Myanmar Christian Fellowship, Anchorage Alaska. April 16, 2017.

Wilson D, Hser Nay, Arnold RW: Retinal Rescues and Burma Vision. Alaska Eye Meeting. May 17, 2017, Anchorage.

Arnold RW: Eye Muscle Surgery: ACES staff training. Anchorage, Alaska September 8, 2017.

Arnold RW: Validation- Pediatric Vision Screening. POWER ONE Network AAO (Pending)

Arnold RW: PPV of Gobiqity- Validation of Vision Screening. Pediatrics Grand Rounds, Anchorage October 17, 2017.

Arnold RW, Gunt Zaw. Talents. Myanmar Christian Fellowship, Anchorage, November 26, 2017.

Arnold RW: Validation and Vision Screening for Alaskan Optometrists. Anchorage. November 30, 2017.

Arnold RW: Remote Nasolacrimal Care for ANMC Optometrists. Anchorage, December 1, 2017.

Arnold RW, Hser Nay: Eye lecture and spectacles, Jungle School of Medicine Kawthoolei, Karen State, Burma December 6, 2017.

Arnold RW, Doh Say: Chapel. ThaUWah Camp, December 10, 2017.

Arnold RW, Damarjian, A, Smith KA: Sensory testing and stereopsis with Nintendo 3DS game. AAPOS-ASA Annual meeting (Poster), Washington DC, March 19, 2018.

Arnold RW, Knotek MJ, Rowe KS: Ten Essentials of Marriage. Wedding Commissioner. Anchorage, Alaska. August 10, 2018

Arnold RW: PDI Check Vision Screening Game. Shark Tank (Awarded 4th Place). Christian Ophthalmology Society Annual Meeting. Estes Park, CO. July 20, 2018.

Arnold RW, West E, Garrity J: The science behind school nurse vision screening. Anchorage School District nurses in-service. Anchorage, Alaska. August 16, 2018.

Arnold RW: Calibrating and Validating Novel Conventional and Video Game Vision Screening Technology. American Association of Certified Orthoptists. Sheratin Hotel Chicago, October 27, 2018.

Arnold RW: Near vision testing with the Nintendo 3DS PDI Check game: Burmese versus American Subjects. AACO/AAPOS Joint Symposium, Gunter vonNoorden Tribute. Sheratin Hotel Chicago. October 29, 2018

Arnold RW, Jacob J, Matrix Z, Ticho B, Skopec D: Factors Associated with Retinopathy of Prematurity Work Load. ROP Hot Topic. University Club Chicago, October 31, 2018.

Arnold RW: Pediatric Grand Rounds, Providence, Anchorage, Alaska. November 6, 2018.

Smith K, Arnold R, Martin S, Rowe K, Hser N, Htoo HE, Khin R: Compared near vision testing with the Nintendo 3DS PDI Check game on the Thai-Burma border. (Poster) American Academy of Optometry, San Antonio, Texas, November __ 2018.

Arnold RW: Calibrating and Validating Novel Conventional and Video Game Vision Screening Technology. Optometric Meeting. Anchorage, Alaska December 6, 2018.

Arnold RW: Importance of photoscreening. Skype conference Padova, Italy, Adaptica Academy. January 17, 2019 5:15-5:40 pm Central Europe Time.

Arnold SL, Arnold AW, Sprano JH, Arnold RW: Performance of 2WIN photoscreener with novel C.R. infrared wand strabismus estimation compared to Retinomax and comprehensive examination. (Poster) AAPOS San Diego, March 28-31, 2019.

Smith KA, Arnold AW, Arnold SL, Sprano JH, Arnold RW: Performance of the Nintendo 3DS PDI Check quick screening game on children and adults with and without binocular suppression. (Poster) AAPOS San Diego, March 28-31, 2019.

Arnold AW, Arnold SL, Sprano JH, Arnold RW: Estimating Cycloplegic Retinoscopy by School Bus Accommodation-Relaxing Skiascopy (SBA-RS). (Poster) AAPOS San Diego, March 28-31, 2019.

Arnold RW: Numeric equivalents for alpha acuities: Salvation for EMR research disasters. (Poster) AAPOS San Diego, March 28-31, 2019.

K Ahmad (MEDNAX), V Tolia, J Jacob, A Kelleher, N McLane, R Arnold, R Clark: Two Year Outcomes of Infants with Stage 2 or Higher Retinopathy of Prematurity: Results from a Large Multicenter Registry (Poster). Pediatric Academic Societies. Neonatal Follow-Up: Neonatal Diseases & Neurodevelopmental Outcomes 1, Baltimore, MD, 4/28/2019

Arnold RW: Plusoptix S20 development, Nuremberg, Germany May 7-8, 2019

Arnold RW: AMGO Conference. Palermo, Italy May 10-12, 2019.

Arnold RW: Amblyopia screening in the USA and the importance optical correction early in the age of development. AMGO first session, Palermo 5/10/19

Piozzi E, Arnold R.W.: Amblyopic patient surgical management. AMGO Palermo 5/10/19.

Arnold RW: Practical adaptation of new AAP ROP Guidelines. Vermont Oxford Network, Anchorage, Alaska June 4, 2019.

Arnold RW: Accommodation Relaxing Skiascopy. Shark Tank. Christian Ophthalmology Society Annual Meeting. Kansas City, MO. August 1, 2019

Arnold RW and Leavitt A: Affordable and Fast pediatric vision screening. Alaska Family Practice Residency Didactic Lecture. October 17, 2019

Arnold RW: Chalazia, Hordeolum, Ocular Surface Disorders and Childrens Vision. Pediatric Grand Rounds, Alaska Regional Hospital Administration Conference Room, October 22, 2019.

Arnold RW: Chalazia and ocular surface disorders. KANA, Kodiak Alaska October 25, 2019.

Arnold RW, Smith KA: Pediatric use of OPTOS and video games for children's vision. South Central Foundation Optometry Meeting, Anchorage, December 13, 2019.

Arnold RW: Vision for a Fit Future: PLAAY conference, Anchorage, ANTHC Consortium Bldg, February 14, 2020.

Arnold RW: Detection and treatment of the three types of Amblyopia- Introduction of the Reblion blinq. Pediatric Grand Rounds, Providence Cancer Center Conference room, February 18, 2020.

Arnold RW, Smith KA, Woodruff J: Vision update. Line ONE radio, Anchorage, February 26, 2020.

Weaver DT, Arnold R, Lee K, Murdock TJ, Suh DW: Pediatric Eye in the Wild Blue Yonder. Workshop, AAPOS, San Antonio Texas March 27, 2020. **CANCELED DUE TO COVID-19**

Nischal K, Bradford G, Arnold RW, Suh DW, Herce H, Granet D: Digital Health- Implications for Pediatric Ophthalmology. Workshop, AAPOS, San Antonio, Texas. March 27, 2020. **CANCELED DUE TO COVID-19**

Vaughan J, Arnold RW: Prospective evaluation of a Smartphone application GoCheck Kids to detect amblyopia risk factors in young children. Poster #104, AAPOS San Antonio, Texas. March 28, 2020. **CANCELED DUE TO COVID-19**

Martin SJ, Htoo HE, Arnold RW: Custom housing enhances the performance of two photoscreeners. Poster #105, AAPOS San Antonio, Texas. March 28, 2020. **CANCELED DUE TO COVID-19**

Arnold RW, Rinner A, Beerle B: The impact of re—operation, relatives and race on the oculocardiac reflex. Poster #new 189, AAOS San Antonio, Texas. March 28, 2020. **CANCELED DUE TO COVID-19**

Arnold RW, Rrujta E: Adaptica Webinar Series: Adaptica for Alaska Blind Child Discovery Charitable, WebinarNinja. April 21, 2020, 7:00 am AST.

Arnold RW, Arnold KK: Be Patient. Evening Virtual COVID-19 Devotions, Clearwater Church, Anchorage, Alaska May 7, 2020.

Arnold RW, [Matrix Z, Jacob, J]: ROP-Check helps in Africa, AAO- Conference (virtual), December 5, 2020.

Arnold RW: Prognostic Implications of blinq. PEDIG Winter virtual meeting, January 23, 2021.

Arnold RW, Erzurum A: Chalazia New Study Idea. PEDIG Winter virtual meeting, January 23, 2021.

Arnold RW: Strabismus for the Pediatrician. Kodiak Conference KANA, March 11, 2021 Virtual Zoom.

Arnold RW: Strabismus for the Pediatrician. Alaska Pediatric Grand Rounds. March 23, 2021. Virtual Zoom.

Arnold RW, Smith Larry: Tools to Help You Prevent Blindness. Alaska Family Practice Residency. April 1, 2021.

Arnold RW, Schumacher G, Ball M, Arnold, AW, Grendahl RL, Winkle RK: Oculocardiac reflex during Retinopathy of Prematurity exams. E-Poster, AAPOS Virtual April 9, 2021

Arnold AW, Smith KA, Molina A, Damarjian AG, Arnold RW. Trichromaticenhanced dynamic color screening with a Nintendo 3DS game, E-Poster, AAPOS Virtual April 9, 2021

Beveridge J, Martin SJ, Beveridge N, Metzger EA, Smith KA, Arnold RW. Grading Spectacle Similarity. E-Poster, AAPOS Virtual April 9, 2021

Weaver DT, Arnold R, Lee K, Murdock TJ, Suh DW: Pediatric Eye in the Wild Blue Yonder. Workshop, AAPOS,Virtual, April 10, 2020

Wyganski-Jaffe, Arnold RW, Chiang MF, Demer JL, Hunter DG, Toth CA, Yang P.: New technologies in pediatric ophthalmology: A view from inside. AAPOS Virtual April 10, 2020.

Shira L. Robbins, MD, FAAO, FAAP; Brent A. Siegel; Lance M. Siegel, MD; Eric A. Packwood, MD; Socioeconomic committee: The Strength of Rebound: Patient Care and Financial Consequences of COVID-19 in U.S. Pediatric Ophthalmology (Poster), AAPOS Virtual April 9, 2021.

Arnold RW: Updated International Uniform Guidelines for Pediatric Vision Screening and how they apply to Alaska Practices. Alaska Pediatric Virtual Symposium. October 1, 2021 Anchorage, Alaska.

Arnold, RW: The EYEs have it: What to know about Alaskan Pediatric Ophthalmology 2021. Alaska Pediatric Virtual Symposium. October 1, 2021. Anchorage, Alaska.

In Progress or stagnation:

Arnold, R.W., Bartley, G.B. Intraoperative fire.

Arnold, R.W., Yung, C.W., Engel, W.K., Plager, D.A., Helveston, E.M., Ellis, F.D. Ocular polydysmorphogenesis: With and without the CNS defects of the Walker-Warburg Syndrome.

Hughes R, Davidson J, Arnold RW, Helveston EM: A comparison of the Mentor BVAT® stereo test with Titmus®, Randot® and TNO®.

Arnold RW: Desaggitized rectus muscles: intraoperative evidence of retraequatorial muscle pulleys?

Longitudinal Infant Visual Exams (Providence IRB)

Arnold RW, Steiner G: PTK for deprivational amblyopia in Alaska.

Rosen CE, Arnold RW: Alaska experience with pediatric orbital masses

Arnold RW, Coon LJ. Estimating the rarity of spectacles: to whom do these glasses belong? *J Forensic Sciences*. 2007;in press→ languished →Spectacle Similarity Clinical Optometry 2021.

AFFILIATIONS:

Providence Hospital, Anchorage, Alaska (Section Chief, Ophthalmology;Surgery '92-92)
Alaska Regional Hospital, Anchorage, Alaska
The Surgery Center, Anchorage, Alaska
Geneva Woods Surgery Center, Anchorage, Alaska
Cordova Hospital, Cordova, Alaska- lapsed
Kodiak Island Hospital, Kodiak, Alaska
Alaska Native Hospital, Anchorage, Alaska (1990-2011; 20
Elmendorf Airforce Base Hospital consulting surgeon- lapsed
Providence MatSu Medical Clinic, Wasilla, Alaska
The Spine Institute- Surgery Center (2011-2013)
Surgery Center of Anchorage (2010-2015)
Creekside Surgery Center (lapsed)
Geneva Woods Surgery Center (lapsed)
The Alaska Surgery Center (1990s, 2013-) Shareholder (8/2014 -) PAB 2015- Building Committee
(2019-)
Valley Hospital, Palmer, Alaska (withdrawn anytime they allow abortion)
South Penninsula Hospital, Homer, Alaska

American Academy of Ophthalmology (Fellow '91, Life Member 2020)
American Association for Pediatric Ophthalmology and Strabismus (Member 2/11/92)
Socio-Economic Committee (93-96, 2011-20)
Vision Screening Committee (97-) Chair (2003-6)
Consultant (2007- 2012-2020)
Nominating Committee (97-98)
Research Committee (2012-2015)

American Academy of Pediatrics- Ophthalmology Section (2012-
Alaska Physicians and Surgeons (96-2013) Steering Committee Secretary (3/96-2/98)
Alaska Eye Meeting (coordinator '92-)
Anchorage Grace Brethren Church (Member (1990-2012), Deacon 1996-9)
Faith Christian Community (2011- 2019) (Missions Council 2011-4, Chair 2012- 4)
Clear Water Church (2015-)
Myanmar Christian Fellowship (2014-
Grace Christian School Board (1999-2005, Treasurer 2000-01, President 2001-5)), Capital
Campaign (2005- 2008)

Anchorage Crisis Pregnancy Center, Medical Advisory Board (90-93)
Alaska State Medical Association (1989-2019)
Alaska Medicine Editorial Board (1999-2008)
Alaska Biathlon Association (USBA # 2962)
Binocular Vision and Strabismus Quarterly, editorial board (2002-2014)
Yale Journal of Biology and Medicine, student editor (1982-1984)
Bible Study Fellowship (1990-96)
Nordic Ski Association of Anchorage
Anchorage Trail Patrol-founder (1995-
Promise Keepers (ID# 503391: 1995-)
Alaska Parenting Ophthalmic Advisory Board: 1993-9
Pediatric Eye Screening Study Group (1999-0)
Eye Screening Project (2000-2)
Pediatric Eye Disease Investigator Group (PEDIG) (1999-2010, 2019-)
Amblyopia Treatment Study (1999-2012)
Esotropia Treatment Study (2005-2007)
Chalazia Treatment Study (X0- 2018-)
Alaska Men's Ministry (Board of Directors, VP; 2006-2014)
Free Burma Rangers (2004-)
Thai Christian Foundation
Free the Oppressed (Advisory Board Member 2015-)
Glacier Medical Software (president 2010-)
542 Medical Office Building Corporation(<2000 - ?2026)
PDI Alaska Medical Office Building Corporation (2015-)

Alaska Surgery Center 1.06 +.5% shareholder (2014-) MAB (2015-)
AAO POWER Section Head: Pediatric Ophthalmology- Vision Screening (2015-
Gobiquity Medical Advisory (2016-
SRS CAB (Clinical advisory Board) 2017-
iScreen Advisory Board (2018-)
PlusoptiX Advisory Board (2019-)

Students and Research Associates:

- '90 **Griff Steiner, MD** (Univ of Nevada Medical School, Reno)
- '92 Shachar Tauber, M.D., (Tulane) ASEO#1
- '93 William Gruzensky, M.D. (Loma Linda/U.C. Davis) ASEO#2
- '94 Stanley Pletcher, M.D. (U Indiana) ASEO#3
- '95 Robert Wolf, M.D. (U Minn) ASEO#4
- '96 **Scott A. Limstrom, M.D.** (U Arizona) ASEO#5
- '97 **Kara Ann Byers** [Beck] (Dimond High School, UAF)
- '98 **Matt Stump** (Seattle Pacific University)
- '98 **Adam Jastrzebski Ballinger, MD** (Service High School, University of Washington)
- '99 **Elisha [Gionet] Brownson, MD** (Grace Christian School, Univ of Washington)
- '99 **John Blackledge, DDS** (UAA, U Penn Dental)
- '99 **Jason Hickel** (Grace Christian School)
- '99 **Michael Owen** (Grace Christian School)
- '99 **Tatiana A. Kovtoun, MD** (UAA, Ben Gurian; BGCU Medical School, Syracuse General Surgery)
- '99 **Christy Machida, MD** (Grace Christian School, Columbia U, U off Washington)
- '00 Jenny Hultquist (Grace Christian School, Westmont)
- '00 **Andrew W. Arnold, DO** (Grace Christian School, UAF, UAA, PNWU)
- '01 Heather March (Grace Christian School)
- '01 **Dustin Lang, MD** (Wheaton, Univ. Wash Medical School)
- '01 Valla Jafari, M.D. ASEO#6
- '02 Patricia Manhire (UHS-COM)
- '03 Hans Tulip, MD (Grace Christian School, Masters College, U of W)
- '04 **Rachel [Leman] Brandt, RN** (Grace Christian School, UAA)
- '04 Charles Chiang (ASEO #7)
- '05 Matt Hammons, MD (ASEO #8)
- '05 **Holly Ryan, MD** (Grace Christian School)
- '06 **Michelle M. [Clausen] Sanders, RN** (Westmont, GCS, Johns Hopkins)
- '06 **Valerie G [Kirk] Goulet, BSN** (South and GCS, Peperdine)
- '06 **Erin Eby** (South, Polaris, UPS, Johns Hopkins)
- '06 **Jennifer [Aleshire] Mangandi** (Dimond, Homeschool)
- '07 Matt Madsen (Midwestern Osteopathic University, Phoenix, Arizona)
- '07 **Lucas E Pratt, PT** (Covenant College)
- '08 Seth Kresovsky, MD (ASEO #9) IU Residency
- '09 Matthew Guess, MD (ASEO #10), IU Residency
- '10 **Elizabeth Winkle** (Grace, Dartmouth)
- '11 **Aleah [Bond] Noel,** (Westmond College, Creighton Med, Wake Forrest Anesthesia residency)
- '11 **Laura Ellen [Arnold] Martin** (Grace, Westmont)
- '11 **Bethanne [Davis] Wilder, RN** (Grace, Union)
- '11 Curtis Mortensen, MD (Alaska Family Practice Residency)
- '11 **Kayla [Rowe] Knotek,** (Grace, MSU)
- '11 **Jodi [Davis] Johnson** (Grace, Cedarville)
- '11 Brian Cresap (Grace, Colorado School of Mines, UAF)
- '12 **Claire Trujillo** (Grace, Claremont)
- '12 **Anna Trujillo** (Grace, Wheaton)
- '13 Becky Clark, MD (Ak Family Practice Residency)
- '13 **Maya Tsao-Wu** (Grace, Claremont)
- '13 **Lauren Tsao-Wu** (Grace, Wheaton)
- '13 **Andrew Eller** (Univ Arkansas Med School, Grace- Harding)
- '13 **Nay Hser** (Karen Eye Medic, Judson hon doctor '17)
- '13 **Stephanie [Kirk] Arnold, DO,** (U of Vermont, PNWU)
- '13 **Celia Haering** (APU, UCSF)
- '13 **Shelley Dunn** (OA)
- '15 **Josh Beverage** (GCS, Gordon College, Idaho SOM)
- '13 Talisha Jackson Hinton (OA-ACES)
- '15 Alexander Foster (UW Med, San Antonio Eye)
- '16 Erin Swieter (PNWU)
- '17 Emma Mayfield (PNWU) 9/17
- '17 Hans Wilhelm (PNWU) 9/17
- '17 Jason Osborn (PNWU) 10/16
- '18 Michael Franklin (PNWU) 1/18

'18 Anthony Recidoro (PNWU) 7/18
'18 **Taryn Hunt-Smith** (Service, Dartmouth)
'18 **Hser Eh Htoo** (JSMK) 5/18
'18 **Ray Khin** (JSMK) 5/18
'18 **Sam Martin** (Westmont, Loma Linda) 5/18
'18 **Gus Schumacher** (Service)
'18 **Jacob H Sprano**, (Grace, Kansas City College of Osteopathic Medicine)
'19 **Ainsley Rinner** (Grace)
'19 Alex Polston (Alaska Family Practice Resident)
'19 **Elise Metzger** (Grace)
'19 Jessica Kester (Grace, UAA, Nova Southeastern University - Osteopathic Medicine)
'19 **Alexa Leavitt** (Vanderbilt/GoCheck Kids)
'20 Blake Hoerdeman (PNWU) 1/2020
'20 Meagan Lange (PNWU, UAA, Chugiak High) 2/2020
'20 Vaishnavi Pochincherla (PNWU, UW, Redmond) 2/2020
#75
'20 **Nathaniel Beverage** (GCS, USAF Academy)
'20 Emily K Davis (Linfield College, PNWU) (7/2020)
'20 **Steven P. Brown** (Grace, Martin Methodist)
'20 **Darion Heald**, (UAA, WWAMI)
'20 **Mason Keffalos** (Boise State)
'21 Clara Monheit, MD (Providence Family Practice)
'21 Alex Dean (PNWU)
'21 Erica Burmood (PNWU)
'21 Tsaina Mahlen (PNWU)

