59th DENTAL SQUADRON

LINEAGE
Constituted as 59 Dental Squadron on 5 Mar 1998
Activated on 1 Apr 1998

STATIONS
Lackland AFB, TX, 1 Apr 1998

ASSIGNMENTS
59 Aeromedical-Dental (later, 59 Dental Training; 59 Dental) Group, 1 Apr 1998

COMMANDERS

HONORS
Service Streamers
None

Campaign Streamers
None

Armed Forces Expeditionary Streamers
None

Decorations
Air Force Outstanding Unit Awards
[1 Apr]-30 Jun 1998
1 Jul 1998-30 Jun 1999
EMBLEM

On a disc tierced in pile reversed, Azure, Gules and Argent, a Rod of Aesculapius Sable, entwined with a serpent White, eyed and langued of the fourth and surmounted with a capital letter “D” of the second fimbriated Black, between a mullet White and a torch Bronze detailed Black, enflamed Proper (Yellow and Scarlet), all within a narrow border Yellow.

Attached above the disc, an Ultramarine Blue scroll edged with a narrow Yellow border and inscribed “59TH DENTAL SQUADRON” in Yellow letters.

Attached below the disc, an Ultramarine Blue scroll edged with a narrow Yellow border and inscribed "CARE THROUGH KNOWLEDGE" in Yellow letters.

Symbolism

Ultramarine blue and Air Force yellow are the Air Force colors. Blue alludes to the sky, the primary theater of Air Force operations. Yellow refers to the sun and the excellence required of Air Force personnel. The star signifies the Squadron is the stellar graduate dental organization within the United States Air Force. The torch represents the purity of knowledge gained from the unit’s training programs that light the way to a brighter future of research. The Staff of Aesculapius symbolizes the medical profession.

Approved on 28 Nov 2001

EMBLEM SIGNIFICANCE

MOTTO

NICKNAME

OPERATIONS
Five MRDG staff presented topics at the annual Texas Dental Association meeting in May. At Texas' largest dental meeting, Col Maureen Lang, Col Mike Koch Col Jim Lindemuth, Lt Col Jon Dossett, and Maj Chol Chong all presented hour-long lectures to the collective audience. Col Deperalta provided consultant visits to six AF AEGD-1 residencies. Col Lang and Lt Col McDaniel presented consultant visits for Orofacial Pain to 10 of the 12 USAF-sponsored AEGD-11GPR programs. Col Lang lectured at the South Nevada Dental Society as well as the UNLV AEGD-1 residents. She also lectured to the psychiatric residents and fellows at WHMC. Lt Col Dossett lectured to the staff and residents at Langley AFB, then spoke at the Virginia Tri-Service Dental Meeting. Col Ray Hancock presented lectures to the 377 Dental Squadron and the Albuquerque District Dental Society, Col Mattie presented lectures on two occasions to the Prosthodontics' residents at UTHSCSA. Maj Chong lectured at the San Antonio District Dental Meeting. MRDG officers remained active in organized dentistry. One served as the Public Affairs Officer for the AF Constituent of the AGD and others served as members of the AGD Fellowship Examination Council and on the AAHD Council on Fellowship. Members also served on editorial boards for journals such as Operative Dentistry, General Dentistry, and the Journal of Prosthodontics. Lastly, four MRDG dental officers held adjunct faculty appointments at the UTHSCSA School of Dentistry.

Oral and Maxillofacial Pathology Flight (MRDM): Col Craig Fowler was Flight Commander. During 2005 he was appointed as a Director of the American Board of Oral and Maxillofacial Pathology (a seven-year term). He was also a semifinalist for the WHMC Gold Headed Cane Award. His presentations during 2005 included Common Oral Lesions to the East Texas Dental Society in January and ~ucocutaneous~ ionsuring the LSU Annual Periodontics Board Review Course in February. He participated in an Oral PathologyIForensic Dentistry Course at Ofhtt AFB in May, an Oral Pathology Course at Eglin AFB in May, a forensic dentistry workshop for the Greater Houston Dental Hygienists' Society in September, and an Oral PathologyIForensic Dentistry Course at the USAFA in October. He conducted a multicenter research project, Glandular
Odontogenic Cyst. Part I, during the year which was still ongoing at year's end.

Col David Wells was co-presenter of a one-day forensic dental workshop at the Greater Houston Dental Hygiene Society in September. He gave a one-hour presentation, Common Oral Lesions, to the 13th District Dental Society in November and participated in an Oral Pathology/Forensic Dentistry Course at Sheppard AFB TX in October.

Oral and Maxillofacial Surgery Flight (MRDO): Lt Col David B. Powers served as the Oral and Maxillofacial Surgery Program Director. He was the guest editor and author of The Role of the Oral and Maxillofacial Surgeon in Wartime, Emergencies, and Terrorist Attacks, an article published in OMS Clinics of North America. He was also a Member-at-Large of the Society of Air Force Clinical Surgeons. Col Odes B. Robertson authored a chapter in the August issue of OMS Clinics of North America. Col Alan L. Peet served as a Board Examiner for the American Board of Oral and Maxillofacial Surgery.

Col Christopher C. Medley was selected as Site Examiner for the ADA Commission on Dental Accreditation for OMS programs. He also authored a chapter in the August issue of OMS Clinics of North America.

During 2005 Lt Col Dennis Hannon separated from active duty, Col Karl Meyer joined the staff from Eglin AFB, Capt James W. "Will" Pledger joined the staff from his civilian residency in Memphis, and Capt Pledger was a FAP accession to the Air Force. The flight supported the wing's readiness mission this year. Col Odes B. "Bailey" Robertson and SSgt Tana Rivera deployed to Balad AB, Iraq in September, serving as the only OMS provider and dedicated technician at that facility. This was an extremely short notice voluntary back-fill to replace individuals from Keesler AFB who were unable to deploy due to hurricane Katrina.

All OMS staff providers are assigned to FFMAX mobility positions. Three enlisted technicians are assigned to OMS specific (FFMAX) mobility teams. Lt Col David Powers was the Pilot Unit Leader for Mobility UTC FFMAX. This was an AF-wide impact position, responsible for the development and oversight of all USAF FFMAX deployment packages. Reconstructive and rehabilitative care was provided for several war wounded patients referred to the OMS Department.
Endodontics Flinht (MRDN): Col Thomas Beeson was Flight Commander, Program Director, and Chief Consultant. The flight Training Officer was Lt Col Timothy C. Kirkpatrick. Col Richard E. Rutledge served as Director of Research and Clinical Endodontics. Cols Beeson and Kirkpatrick held appointments in the Endodontics Department at UTHSCSA. Dr. Rutledge's application was pending. Flight NCOICs included MSgt Jeff Baldovino, TSgt William Seehausen, and TSgt Francesca Wheeler. During 2005, the flight graduated two residents and led student support for a two-week post-graduate course for eight students (the only DoD hands-on endodontic training). The flight acquired residents from Keesler AFB and LSU in the wake of Hurricane Katrina (second-years Lt Col Lee Fulsaas and Capt Shane Hanson, and first-years Maj Dennis Holt and Capt James Watts). The first-year residents treated patients for the first time in the history of WHMC endodontic training. Central to the wing's support of war on terrorism, the flight expedited the care of 340 non-deployable dental Class III patients. The staff promptly appointed 390 patients from seven referring DoD facilities which reduced the waiting time from 72 to 24 hours. The flight reduced no-shows 10% during the year and instituted an innovative scheduling process, ensuring all patients received an e-mail reminder. The department's utilization of our $450K budget yielded nearly $800K in patient care. Scheduling became fully paperless (CDA). Lt Col Timothy Kirkpatrick was selected as CPA&IP Chairman this year. He lectured at the WHMC graduation seminar and was a finalist for Outstanding New Educator of the Year. He served as Secretary Treasurer for the AF Affiliate of the American Association of Endodontists, was judge at the AAE Annual session, and a member of the AAE Scientific Review Board. Col Richard Rutledge joined the staff in November as Director of Research and Clinical Endodontics and remains the Program Director for the Keesler Endodontics Residency. He is also an AAE District II Director, representing all three federal services. Col Beeson lectured for two days at Ft Hood, attended a Program Directors' conference (sponsored by AAE), interacted with other services in pursuit of a common residency at a Federal Services Education Meeting,
and devised the first-ever Outstanding New Educator and Outstanding Senior Educator Awards. He served as President of the AF affiliate of the AAE and was a member of the AAE Scientific Review Board.

The flight's enlisted personnel were also very busy in 2005. MSgt Baldovino co-chaired the wing's monthly enlisted promotion ceremony and the wing's holiday social committees. SSgt Whitt led and trained 59th DS residents and staff on the Dental Field Unit. TSgt Seehausen was selected to teach at the Advanced Oral Hygiene Course and TSgt Wheeler was a 59th MDW Top II1 member.

The following articles and abstracts were published or accepted for publication in 2005:


Prosthodontics Flight (MRDP): Col Thomas Schneid served as Flight Commander and Program Director for the Air Force Prosthodontics Residency Program. He also served as the Military Consultant for Prosthodontics to the AF Surgeon General and Special Consultant for Prosthodontics to the Assistant Surgeon General for Dental Services. Col Pat Mattie, who was serving as Deputy Flight Commander and Training Officer, moved to Dunn Dental Clinic and served as the senior Prosthodontist on the AEGD-2 teaching staff.
Maj Don Sheets served as the Training Officer. He was a below the zone selection to Lt Col. Col Paul Rogers served as the Clinical Director for the Flight as well as the Deputy Flight Commander. Maj Raymond Rodriguez was the First year resident training officer. MSgt David M. Banker served as the Flight NCOIC. One staff position was vacant due to a shortage of Prosthodontists in the Dental Corps. The Maxillofacial Prosthetics section was led by Maj Villa L. (Bel) Guillory. She also served as the Maxillofacial Fellowship Program Director. Dr. Guillory trained a fellow from the United States Navy, LCDR Lewis T. Carpenter, continuing the 21-year tradition of Tri-service training for the Fellowship program. Maj Guillory was the first woman to serve on the Prosthodontics teaching staff and the first woman Program Director for an ADA-accredited dental training program at WHMC. Maj Guillory and her staff were actively involved with the prosthetic rehabilitation of OIF casualties in direct collaboration with the BAMC Bum Unit. She was selected to provide briefings on the wartime role of her subspecialty to various groups, including the AF Surgeon General, Spain's Minister of Defense, AF Recruiting Command members, civilian health educators, foreign dignitaries sponsored by the Defense Institute for Medical Operations, a Senate Appropriations Committee for Health Affairs staffer, a representative from the Office of Management and Budget, and Mrs. Audrey Fisher and Lackland Fisher House staff. In addition, she and her staff were featured in an article in the *Sun Antonio Express News*. Two residents scored in the top 10 in their respective year groups on the ACP in-service written examination. One resident scored second in the nation out of a total of 189 residents overall. Four of nine residents scored in the top 20% nationally of the 189 residents taking the exam. All residents had passing scores. Two senior residents received their master's of science degree from the UTHSCSA Graduate School of Biomedical Sciences. One junior resident successfully defended his master's of science thesis. Another of the junior residents was completing a study on Obstructive Sleep Apnea. It is possible that the results of the study may have implications for the readiness posture of some of our troops. Five residents presented their research.
at the 2005 Annual Session of the American Association of Dental Research in Baltimore, MD. Three table clinics were presented at the ACP annual meeting and one table clinic presented at the AAMP. The Prosthodontics Flight presented two AETC continuing dental education courses, the four-week Postgraduate Course in Prosthodontics and the Basic Dental Implant Course. Neither course was presented elsewhere in the Air Force.

Col Schneid, as a co-author, submitted two papers on the role of candida organisms in denture stomatitis and was involved in research on the use of primers and adhesives to bond polyurethane to facial prosthetic silicone polymers. Col Schneid and Maj Rodriguez lectured to the 2005 AF Area Dental Laboratory Workshop. In addition, Maj Rodriguez presented a hands-on course on fixed provisionalization at the Workshop that was rated the best course given (by attendees' critiques). Col Mattie lectured to the Endosseous Dental Implant Course at UTHSCSA. Cols Mattie, Rogers and Schneid presented to the UTHSCSA Advanced Dental Implant Course. Major Bel Guillory was selected for the second time to be a featured speaker at the 2005 Annual Scientific Session of the AAMP and delivered a lecture with her Army and Navy counterparts on maxillofacial prosthetic rehabilitation of wartime injuries.

Maj Guillory delivered lectures to the first annual Graduation CE Day, the Eglin AFB AEGD-1 program and the BAMC Burn Unit.

All members of the Prosthodontics staff held appointments as graduate faculty at UTHSCSA as clinical associate professors. Four staff members presented various lectures to residents in the Prosthodontics, Periodontics and Endodontics Graduate Programs. All staff members served as editorial reviewers for the Journal of Prosthodontics and Col Schneid served as a member of the Editorial Review Board for the same journal. Col Schneid also represented AF Prosthodontics at the ACP Educators and Mentors' seminar on Enhancing the Prosthodontic Faculty: The Problem of Perceptions.

Col Mattie is served as President of the Texas Section of the ACP. Col Schneid was appointed as Chairman, Federal Services Committee of the ACP. He served as a member of the Graduate Student Recruitment Subcommittee of the ACP and a member of the Federal Services Special Interest Group of the
AAMP. In addition, Col Schneid was appointed to the Constitution and By-Laws Committee of the American College of Prosthodontists.

Periodontics Flight (MRDT): Col Howard "Mick" McDonnell served as Periodontics Flight Commander and Program Director for the United States Air Force Periodontics Residency. He also was the Military Consultant to the Air Force Surgeon General for Periodontics. Lt Col Sharon Bannister assumed the position of Training Officer following the PCS of Col Alan Moritz. Lt Col Steve Maller replaced Col Dave Deas as the Director of Clinical Periodontics and Col Mike Conlan joined the staff as the Director of Postgraduate Education. Col Charles Powell served as the Director of Periodontal Research. MSgt Tabitha Hendrix replaced TSgt Keven Fox as the Flight NCOIC. All three 2005 graduates (Maj Johnson, Maj Stanley, and Capt Font) challenged and passed the American Board of Periodontology (ABP) written and oral examinations in 2005 and became board certified. The Periodontics Flight ran the five-week didactic and clinical 2005 Periodontics Postgraduate Course for six Air Force dental officers with other officers in attendance for various lectures. Lt Col Bannister was the course director and SSgt Rachael Badillo was the course NCOIC. Lt Col Bannister presented *Palatal Neurofibroma Associated with Local Periodontitis* at the 2005 District 8 Scientific Session, American Academy of Periodontology meeting in Denver, CO. The staff presented numerous lectures at the UTHSCSA in support of the joint training efforts in periodontics at that institution, as well as lectures in support of the various AF postgraduate short courses. Col Moritz presented two lectures to the staff at Patrick AFB during a consultant visit in March and presented *The Periodontal-Systemic Connection* to the Brevard County Dental Society during the same trip. Capt Kerri Font presented *Platelet Rich Plasma* at the 5th DS Graduation Continuing Education Meeting. Capt Dwight Johnson presented *Periodontal Plastic Surgery for Root Coverage* at the 5th DS Graduation Continuing Education Meeting. Capt boron Bresler presented *The Development of an Elisa for the Screening of MEPE in X-linked Hypophosphatemic Rickets* at the 2005 District 8 Scientific Session, American Academy of Periodontology Meeting. Capt Casey Campbell presented *Prostaglandin receptor modulation by*
Implant Roughness and Prostaglandin E2 at the 2005 District 8 Scientific Session, American Academy of Periodontology Meeting. Capt Patrick McDonough presented T-cell Response to Actinobacillus Actinomycetemcomitans at the 2005 District 8 Scientific Session, American Academy of Periodontology Meeting. The residents also present numerous lectures as part of the 2005 Postgraduate Course in Periodontics and Senior Resident Lecture Series.

Flight staff earned five research competition presentations and four awards in 2005. Maj Dwight Johnson and Capt Casey Campbell were selected as finalists for the Southwest Society of Periodontists' John Prichard Graduate Research Award. Maj Johnson won first place and Capt Campbell was awarded second place. Capt Campbell was awarded first place in the Postgraduate Division for his research at the UTHSCSA Dental Science Symposium. Maj Johnson and Maj Jesse Murillo were selected as finalists for the AAP's Balint Orban Memorial Research Competition. Maj Johnson won first place in the Basic Science Division to become on only the fourth AF periodontist to win this prestigious national research award.

Seven articles and four abstracts were published or accepted for publication in 2005:


Schwartz SA, Koch MA, Deas DE, Powell CA. Combined Endodontic-Periodontic Treatment of a
All members of the Periodontics teaching staff held appointments as graduate faculty in the Depart of Periodontics at the UTHSC Dental School in the position of Clinical Assistant Professor. Col Moritz served on the AAP In-.Service Examination Committee (5th year) and the AAP In-Service Examination Validation Subcommittee (4th year). Col Moritz also served on the AAP Membership and Awards Committee and on the AAP Nominations Committee. Col Chuck Powell served on the American Board of Periodontology Nominations Committee. Lt Col Bannister served as judge for the Southwest Society of Periodontists John Prichard Graduate Research Award Competition. Lt Col Bannister also served on the AAP New Practitioner Committee as the District 8 representative. Col McDonnell was chair of the Southwest Society of Periodontists Scientific Affairs Committee. Col Powell was a member of the Southwest Society of Periodontists Scientific Affairs Committee. Orthodontics Flight (MRDR): Upon the retirement of Col David Gonzales, Col Eric Brendlinger assumed the position of Flight Commander, Chairman of the TORP, and Special Consultant to the Surgeon General in Orthodontics. Col Brendlinger also was the President of the AAMO. Col Jeff Mabry was the Director of Pediatric Dentistry and Special Consultant to the Surgeon General in Pediatric Dentistry. Lt Col
Drew Fallis assumed the position of Program Director for the TORP and Lt Col Michael Roberts (US Army) continued as the Clinical Director. Capt John Freeman (USN) continued as Training Officer for the senior class and, upon the retirement of Col Tim King (US Army), Lt Col Ray Melendez (US Army) joined the faculty and became the Training Officer for the junior class. Lt Col Curtis Marsh remained the Director of Orthodontics for the AEGD-2 Program and Lt Col Lawrence Roth served as the OMFS Director of Orthodontics at WHMC. Lt Col Lawrence Roth deployed to Manas AB, Kyrgyz Republic in September.

Capt Freeman and Lt Col Fallis challenged and passed the ABO, Phase III clinical and oral examination to complete their final board certification requirement. Lt Col Marsh, Lt Col Roberts, Lt Col Melendez, and Lt Col Roth each accepted the ABO Gateway option for early board certification, which required completion of Phase III within five years to achieve final certification. Therefore, in 2005, 100% of the teaching staff was ABO certified.

Three 2005 graduates challenged and passed the ABO Phase II written examination in 2005 and became board eligible.

Col Brendlinger presented lectures to the USN Pediatric and Orthodontic Short Course in Bethesda in March on Limited Treatment, Space Maintenance, and Orthodontic Referrals.

Capt Freeman presented lectures to the USN Pediatric and Orthodontic Short Course in Bethesda in March on Basic Orthodontic Appliances, Facial Esthetics, and Orthodontic Diagnosis and Treatment Planning.

Col Mabry provided two one-hour lectures to the WHMC pediatric residents and staff (Fluoride Therapy and Anomalies of the Pediatric Oral Cavity). Dr, Mabry presented a two-hour lecture to the Clinical Update in Dentistry Short Course, the American Board of General Dentistry Review Course, the Endodontics Short Course, and the Dental Prevention Course. Col Mabry served as course director for two four-hour courses that provided Nitrous Oxide Certification for all endo, perio and AEGD II residents.

Col Mabry provided annual age specific training (for the child) annually for the 59th Dental Squadron.

Col Mabry provided the annual Child Abuse and Neglect briefing for the 59th Dental Squadron. Col Mabry directed a sixweek
training course (clinical and didactic) for one of the USAF’s pediatric dentists (Jan-Feb). Finally, Col Mabry served as the course director for the Pedo Postgraduate Course (Sep 12-23), training six USAF general dentists in pediatric dental techniques. Lt Col Curtis Marsh presented two-hour lectures at the Pediatric Dentistry Short Course, the Clinical Update in Dentistry Short Course, and the American Board of General Dentistry Review Course, as well as a one-hour presentation at the Implant Course. Additionally, he hosted the second-year periodontic and prosthodontic residents weeklong Short Course in Orthodontics. Lastly, he presented a two-day seminar entitled *Orthodontics in General Practice* at the Roaring River State Park in Missouri to the Southeast Kansas Dental Society.

Capt John Alkire (US Amy), Lt Commander Chad Burton (USN), Maj Keith Clark, Capt Michael Wall (US Army) and Capt Chad Watts presented two table clinics at the American Association of Orthodontists Annual Session in San Francisco, *A Survey on Use and Satisfaction with the Invisalign Appliance* and *Comparison of Torsion Resistance of Two Types of Surgical Hooks*, Three journal articles and three abstracts were published. One article was accepted for publication and was awaiting final publication:

- O’Bannon, SP and Dunn WJ. *Comparison of torsional resistance of two types of split crimpable hooks with soldered brass surgical hooks*. Approved for publication by the American Journal of Orthodontic and Dentofacial Orthopedics.
The senior residents presented their Senior Resident Lectures:
- Maj Renee D. Carlson: *Guided eruption of occlusion (Serial Extractions).*
- Lt Commander Shawn P. O'Bannon, USN: *Extraoral Traction.*

Col Mabry served on the Board of Directors of the American Board of Pediatric Dentistry. Lt Col Fallis served on a Clinical PanellDelphi Group to evaluate an NIH Grant Proposal, *In Vitro Investigation of Sliding Mechanics*, proposed by Dr. Robert Kusy, University of North Carolina-Chapel Hill, Department of Orthodontics.

Dental Laboratow Fliath (MRDL): Colonel Charles F. DeFreest was Flight Commander and MSgt Timothy Procita was the Dental Lab Flight NCOIC. TSgt Gary Johnson was NCOIC, Base Dental Laboratory;
TSgt Carol Procita was NCOIC, Kelly Dental Laboratory; and TSgt Jeri Perry was NCOIC, Almquist Stereolithography Laboratory.

During 2005, the following enlisted members were selected for monthly squadron awards: TSgt Karen Verdier (NCO, March), A1C Amanda Warren (Airman, March), A1C Yvete Morales (Airman, April), SrA Kevin Parker (Airman, May), TSgt Dave Smith (NCO, July), A1C Mark Griffin (Airman, July), A1C Dollie Reed (Airman, August).

The following flight personnel were selected for squadron quarterly awards in 2005: TSgt Karen Verdier, Mr. Kenny Kemple, and A1C Dollie Reed.

Col DeFreest received the Major General Bill Lefler Federal Services Award of the American College of Prosthodontists (national award). TSgt Gary Johnson was a distinguished graduate from the NCOA and he and TSgt David Smith both received AETC Commander's Awards during the Advanced Porcelain Course at Sheppard AFB, TX.

A1C Dave Carballeyra and A1C Jeni Bamford were awarded SrA Below The Zone during 2005. TSgt Jeri Perry and TSgt Renee Mach were awarded CCAF for Dental Laboratory Technology during the year.
The Stereolithography Laboratory received a new 3D system Viper si2 solid state SLA Machine. This $200,000 upgrade enabled significant improvements in model detail and clarity. Several new projects were initiated including a project to develop direct implant surgical guides that would index to bone, teeth, and soft tissue. The system was utilized extensively, in coordination with the Maxillofacial Laboratory Element, to treat OIF casualties and a US State Department designee from Central America. SrA Alain D. Carballeyra received Commander's Coins from AETCICC and the 59th MDWICC as special recognition for his several accomplishments within the facility.

MacKown Dental Laboratory installed a Nobel Biocare Piccolo contact digitizing system for use in producing CAD/CAM implant custom abutments as well as coping structures for single-unit dental crowns.

The system enabled production of units in titanium, aluminum oxide and zirconium oxide materials.
Sources