

CODE ONE®

LOCKHEED MARTIN AERONAUTICS COMPANY

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LOCKHEED MARTIN 

AVIATION ART ISSUE



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Low-Level Strike
Morphing Vehicle
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Flight C
Loitering Day

IN MEMORIAM

EDDIE MOORE, AVIATION ARTIST
1952–2008



EDDIE MOORE created hundreds of aircraft illustrations and paintings during his thirty-year professional career at General Dynamics/Lockheed Martin in Fort Worth, Texas. His work appeared on book covers, conference room walls, engineering presentations, and in the pages and on the cover of *Code One*.

Eddie's early career was spent creating and illustrating engineering presentations. His first painting for the company, completed in 1979 and



shown here, was a next-generation trainer for the US Air Force. Called Model 210, the jet-powered aircraft was designed to be a replacement for the T-37 Tweet.

Eddie earned a reputation for bringing aircraft ideas to life. In fact, his last painting completed for Lockheed Martin shows a concept for an unmanned submarine-launched aerial vehicle called *Cormorant*.

This aviation art issue, which contains more of Eddie's paintings, is a fitting tribute to his life's work.



CODE ONE AVIATION ART ISSUE

The Occasion: The fifth annual conference for the International Society for Aviation Photography.

The Setting: A chain restaurant outside Washington, DC. Mike Machat, noted aviation artist, magazine editor, and conference speaker, was seated at our table. To pass the time, someone handed Machat a napkin and a pen and asked him to draw an airplane.

"What would you like?" he asked.

"How about a B-36?" came the reply.

A minute later, Machat handed back the "Six Turning and Four Burning" sketch, a reference to the combination of piston and jet engines on the big bomber. More napkin art requests followed. By the time dinner landed, everyone at the table had his own drawing. Even the experimental three-engine Martin XB-51—as the "Gilbert XF-120" in the movie *Toward the Unknown*—was committed to napkin art. Machat could not be stumped.

We'll credit the framed B-36 napkin, which hangs prominently in the *Code One* office, as the inspiration for this special aviation art issue of the magazine. Aviation inspires art. This particular brand of art emphasizes the dynamic environment of flight. It shows the intricate details of aircraft construction that is an art by itself. It depicts historical moments impossible to capture on film or on a sensor chip. It can shape the future. Many aircraft actually got their start as basic drawings on napkins—usually cocktail napkins.

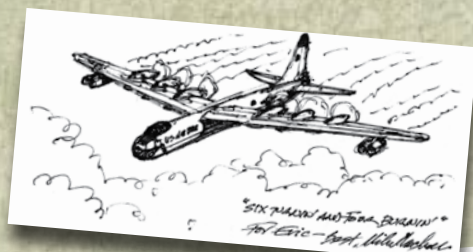
Our previous issue dedicated to aviation art, Volume 10 Number 4 in 1995, featured F-16 art exclusively. That "Art of the F-16" edition was hugely popular. We decided to revisit and expand the topic, this time opening it to current and legacy Lockheed Martin aircraft. The result is a collectible tribute to the proud past, the prodigious present, and the fantastical future of aerospace platforms created by Lockheed Martin.

The American Society of Aviation Artists deserves special thanks for our resulting collection. The organization's founder and longtime fan of *Code One*, Keith Ferris, put out a call for works related to Lockheed Martin and the company's legacy. The response accounts for a majority of the contents of this special issue.

Space limitations prevented us from showing all of the art submitted for this issue, but those additional images can be found on our Web site, www.codeonemagazine.com.

Enjoy.

Eric Hehs
Editor, *Code One*



JAPAN F-2 SELF-DEFENSE FIGHTER
MASAO SATAKE



THE FUTURE OF NAVAL AVIATION
KEITH FERRIS



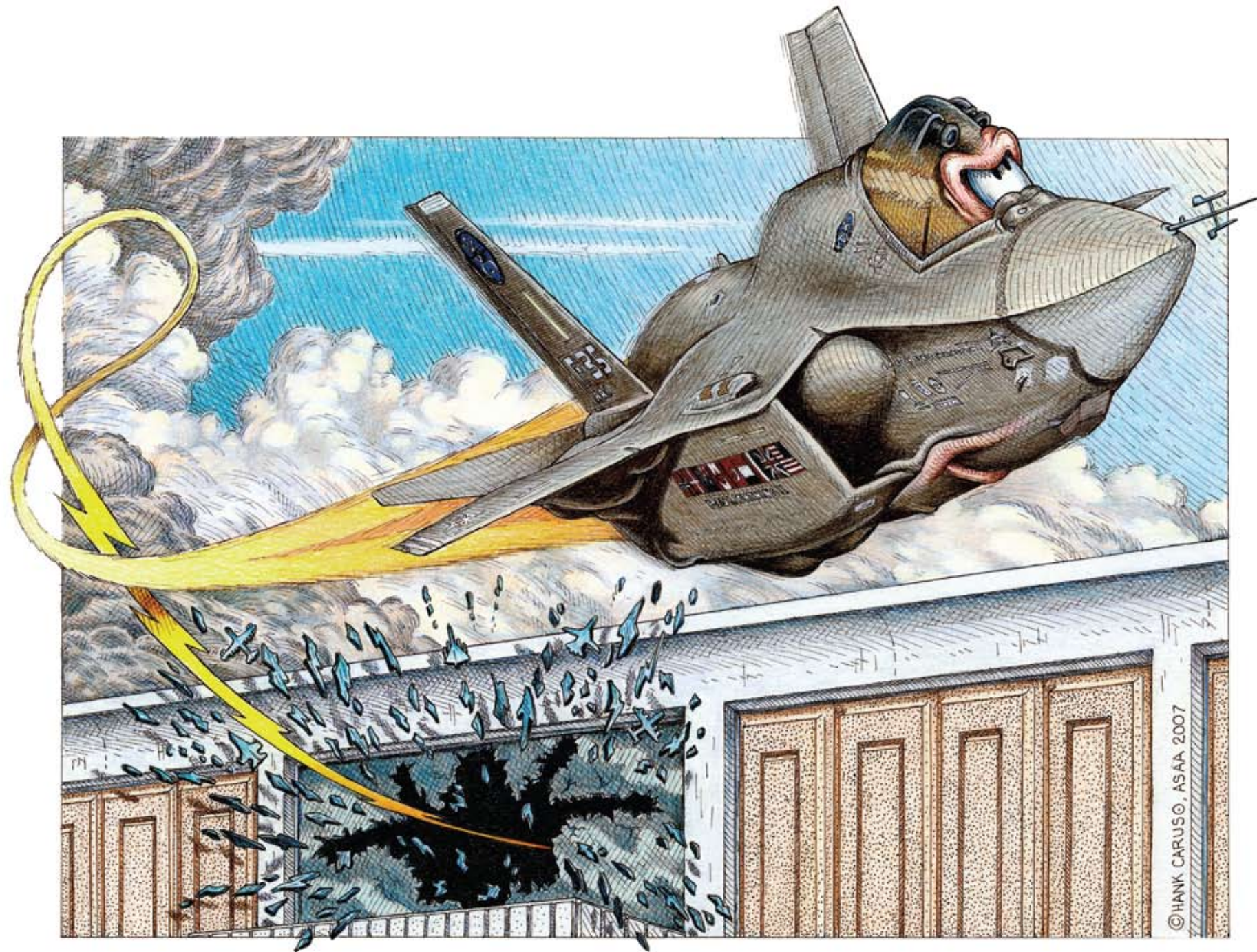
AMERICAN CLASSIC
STEVE HALL



AIR-TO-GROUND LIGHTNING
K. PRICE RANDEL



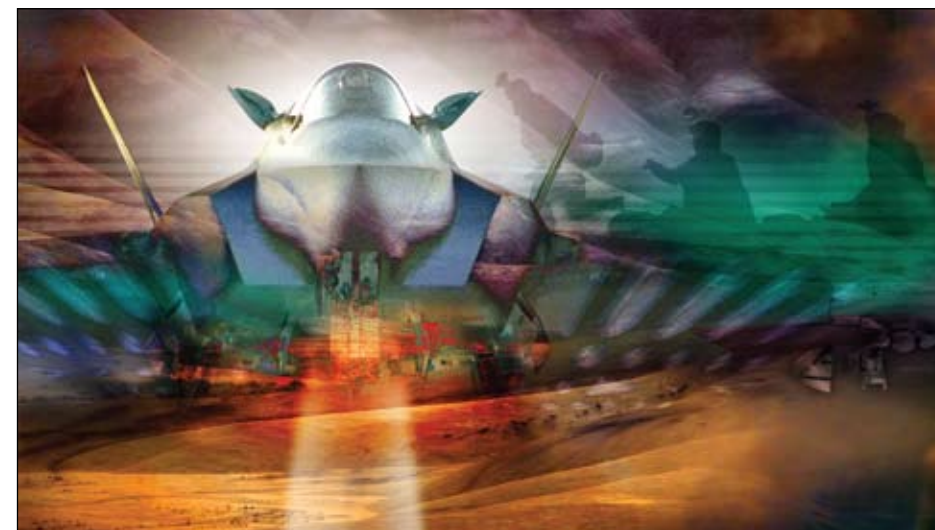
F-35C RETURNS TO SHIP
EDDIE MOORE



ANOTHER BOLT OF LIGHTNING
HANK CARUSO



LIGHTNING STORMS THE BEACH
EDDIE MOORE



ANYTIME, ANYWHERE
STEVE HALL



LIGHTNING STRIKE
EDDIE MOORE



ATLANTIC SUNRISE
KEITH FERRIS



GALAXY DELIVERS
K. PRICE RANDEL



FEEDING TIME
DAVE SCHWEITZER



THE HIGH AND MIGHTY
BOB CUNNINGHAM



B-58 NOSE ON
NICK LAMBERT



FASTER THAN A SPEEDING BULLET
MIKE MACHAT



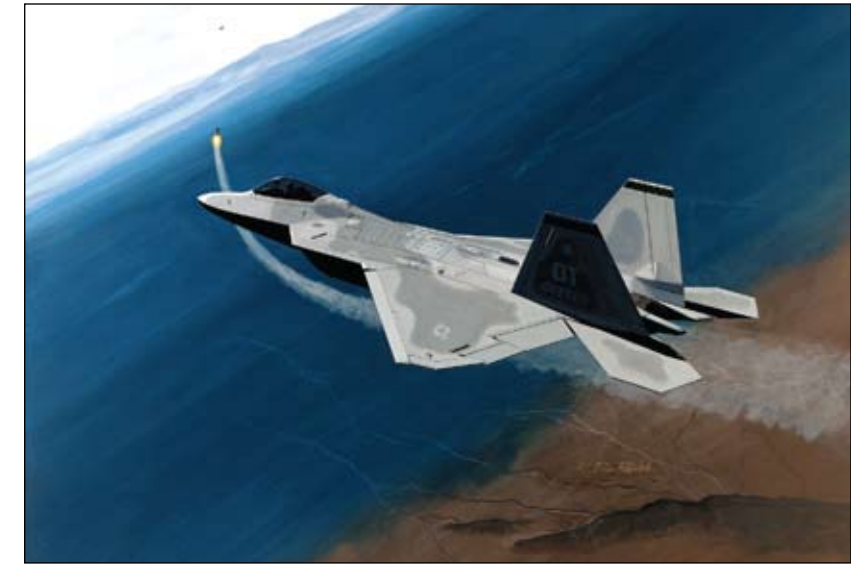
B-58 HUSTLER
EDDIE MOORE



VETERAN'S PASS
MICHAEL KANE



NOWHERE TO RUN, NOWHERE TO HIDE
MIKE KEVILLE



SHARPENING THE SWORD
K. PRICE RANDEL



RAPTORS RULE
PAUL TRELEVEN



THE EDGE
KEITH FERRIS



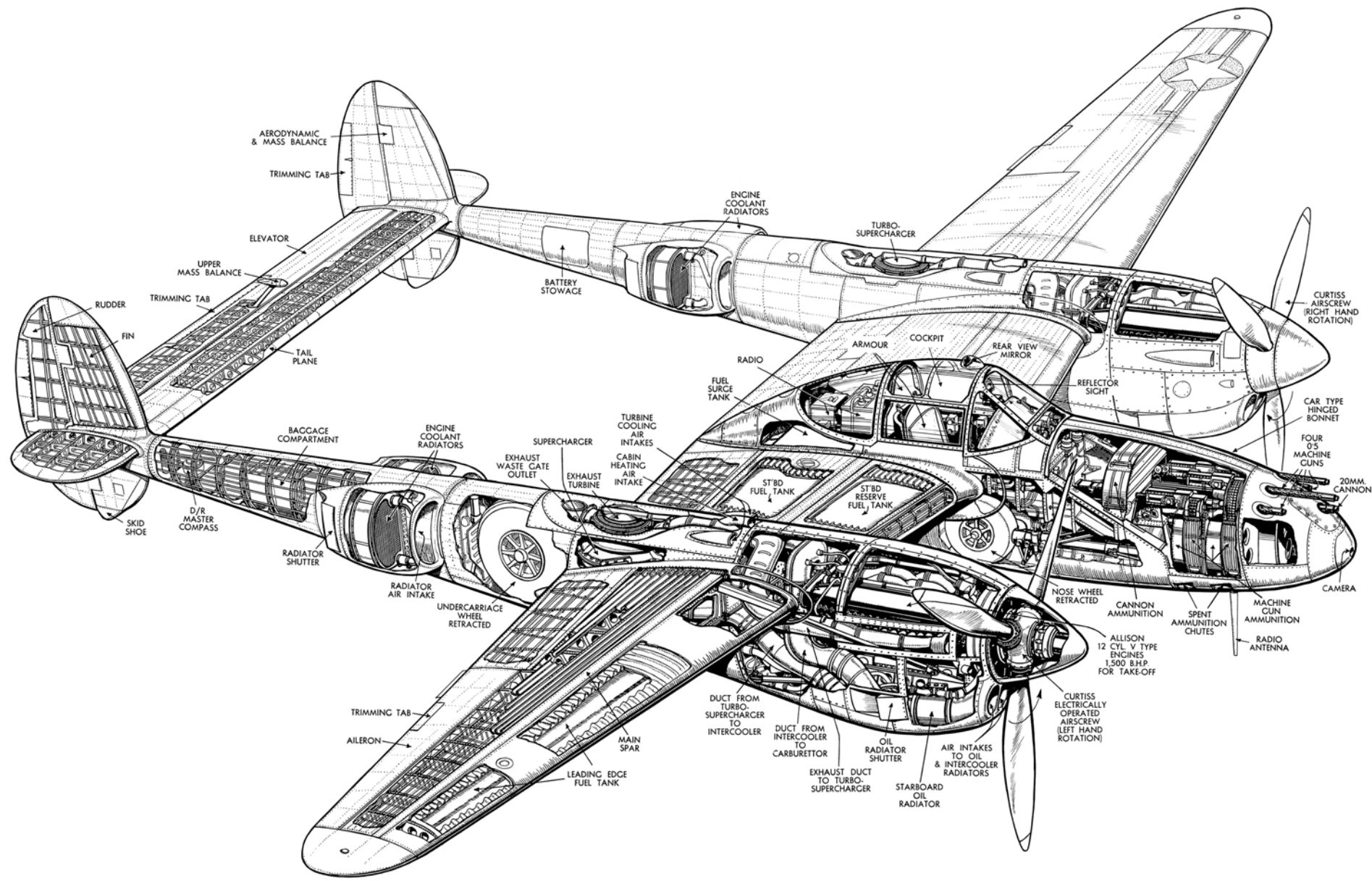
ROAR OF THE RAPTOR
MIMI STUART



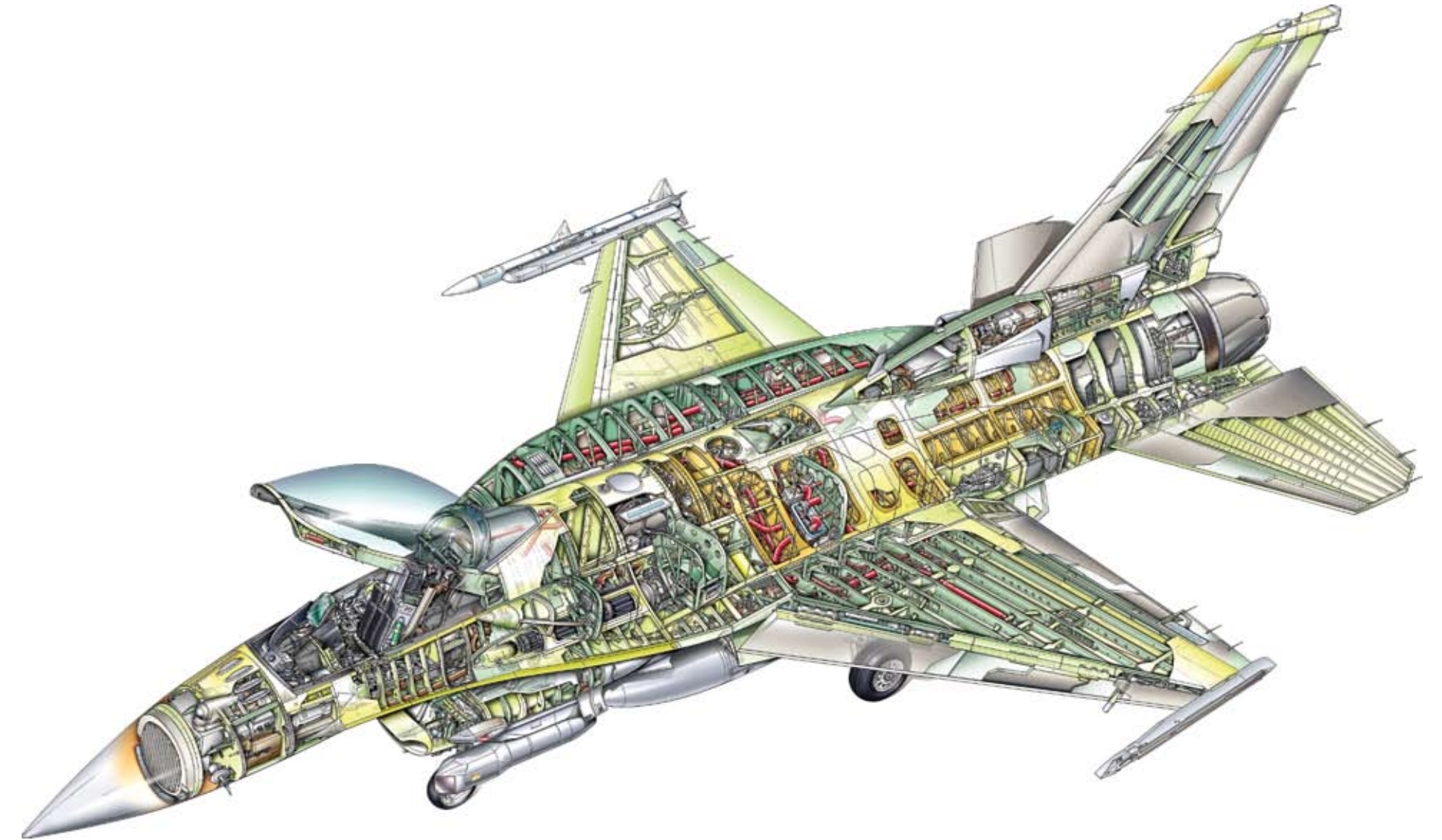
BRINGING THE HEAT
DAN ERDMANN



RAPTOR DOMINANCE
DOMENIC DENARDO



P-38 LIGHTNING
MAX MILLAR



F-16 DESERT FALCON
GIUSEPPE PICARELLA

Special thanks to *Flight International* for providing historic and current cutaway art.



EARLY GREY
DAVE SCHWEITZER



THE STAR DROPS INTO CHEONG JU
KEITH FERRIS



FENCE CHECK
RONALD WONG



ICE PATROL
CRAIG SLAFF



KC-130J REFUELER
K. PRICE RANDEL



HERK AT WORK
HANK CARUSO



C-130J COMBAT RESUPPLY
K. PRICE RANDEL



GUNSHIP
RICHARD E. THOMPSON



TIP OF THE SPEAR
RONALD WONG



STAIRWAY TO HEAVEN
MIKE MACHAT



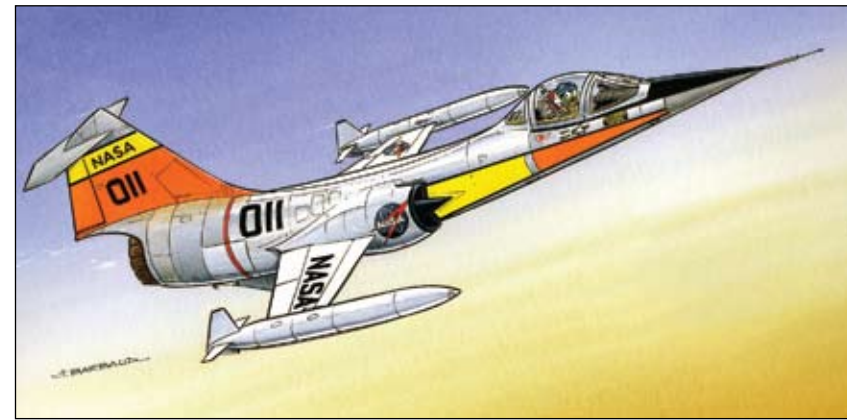
INGALLS CROSSING THE ANDES
SHARON RAJNUS



DOOLITTLE BLIND FLIGHT
KEITH FERRIS



STARFIGHTER STATIC
CHARLES THOMPSON



FLY ME TO THE MOON
JEAN BARBAUD



B-10 SUPPLIES THE CAVALRY
KEITH FERRIS



THE STARLIGHT SHIFT
RONALD WONG



DEPARTURE FROM ALCONBURY
RONALD WONG



ON THE HOME STRETCH
RONALD WONG



THE DRAGON LADY IS HOME
KEITH FERRIS



ALASKAN T-33 AGGRESSOR
RONALD WONG



RUSSELL BROWN, THE VICTOR
KEITH FERRIS



HIGH CLIMBER
RONALD WONG



STAFF DEUCES HOLDING THE LINE
CRAIG SLAFF



...BUT YOU CAN'T HIDE
MICKEY HARRIS



THE HUNTERS
DON FEIGHT



TANKER 17
MIKE KEVILLE



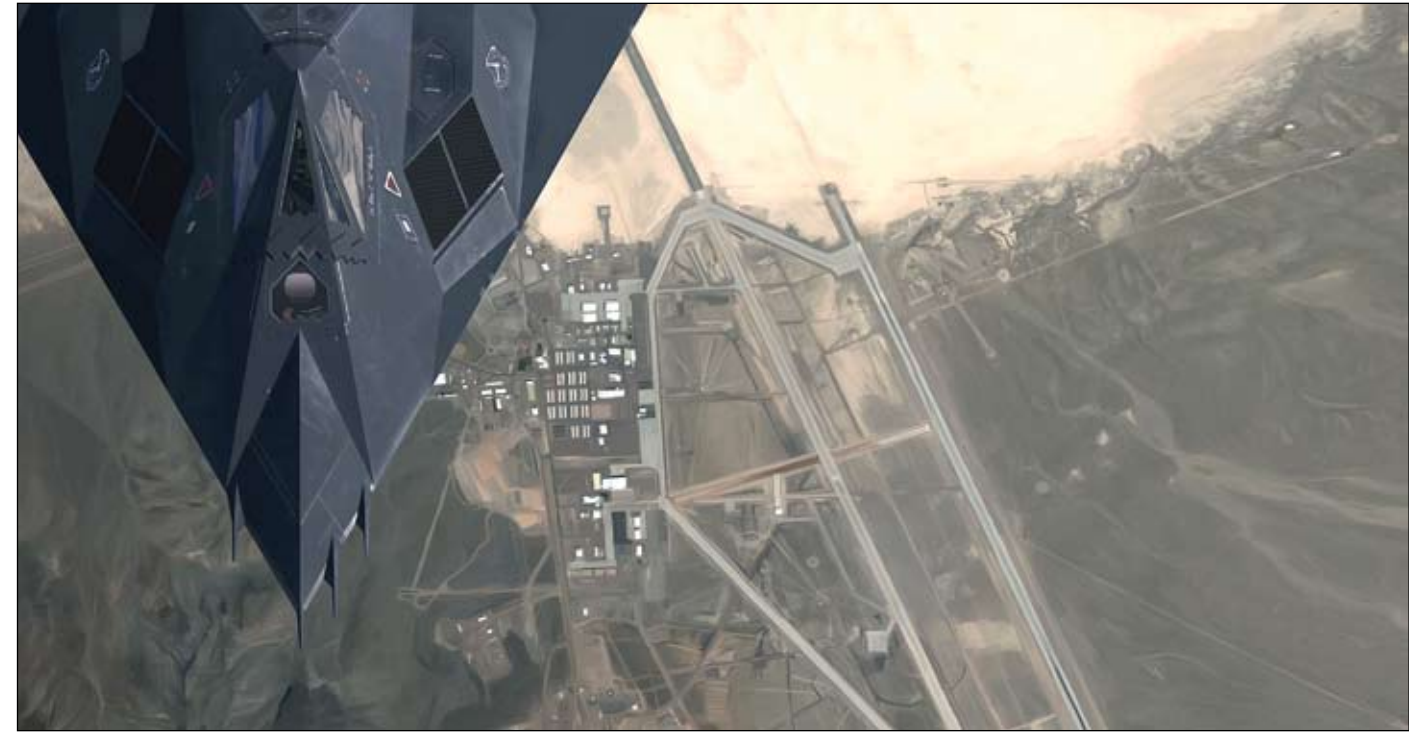
CAUGHT IN THE RIGGING
HANK CARUSO



OVER TORA BORA
RONALD WONG



THE LIGHTS OF VEGAS
RONALD WONG



NIGHTHAWK
THIERRY THOMPSON



F-117 ABSTRACT STUDY
RONALD WONG



NIGHTHAWKS, TOO
MICHAEL KANE



P2Y FLYING BOAT
NICK LAMBERT



BLACK CAT
KEITH FERRIS



P2V NEPTUNE OF CLAY BUTZER
KEITH FERRIS



MARLIN'S MILIEU
DON FEIGHT



HUDSON CAPTURES SUBMARINE
C. G. HODGSON



PV-1 VENTURA
SHIGEO KOIKE



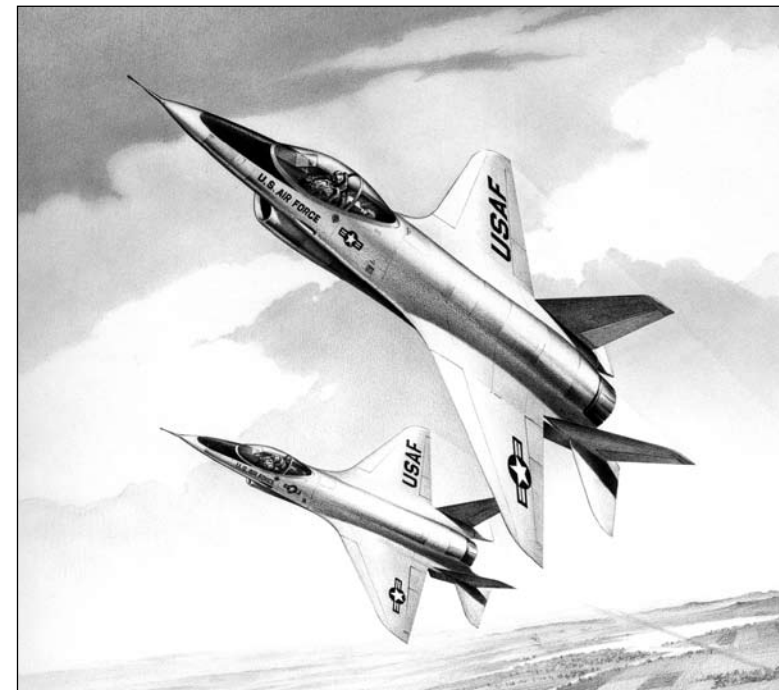
USAF THUNDERBIRD FORMATION
BOB CUNNINGHAM



YF-16 PROTOTYPE
BOB CUNNINGHAM



F-16XL
BOB CUNNINGHAM



LIGHTWEIGHT FIGHTER DESIGN STUDY
BOB CUNNINGHAM



NAVY FIGHTER
BOB CUNNINGHAM



FIGHTER HERITAGE
K. PRICE RANDEL



SNAKES COMING LEFT
KEITH FERRIS



NORWEGIAN PANTERA
RICHARD E. THOMPSON



THUNDERBIRD ONE
RONALD WONG



T-50 GOLDEN EAGLE
EDDIE MOORE



TRAIL BLAZER
CHARLES THOMPSON



A REAL HONEY
CHARLES THOMPSON



AIRSHOW
MICHAEL KANE



BIG HAIRY BIRD
JEAN BARBAUD



B-26s OVER ENGLAND
GEORGE GUZZI



THE STARLIFTERS
DRU BLAIR



THE AIRLIFT LEGEND
K. PRICE RANDEL



INSPECTION PARTY
KEITH FERRIS



THE BLACKBIRD AT WAR
RONALD WONG



CHARIOT OF NYX
KRISTIN HILL



SPEED OF HEAT
HANK CARUSO



SR-71 BLACKBIRD
KEITH FERRIS



SR-71 BLACKBIRD
GEORGE GUZZI



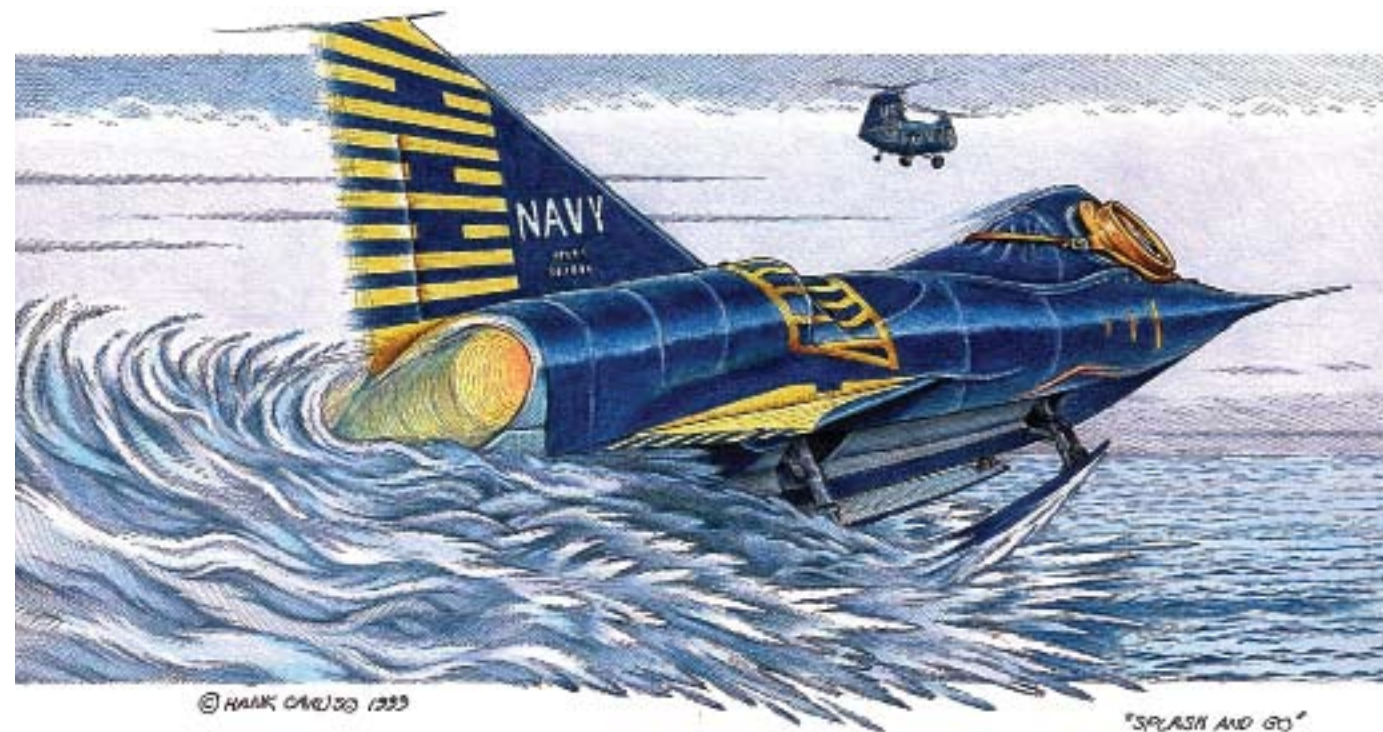
SHOOTING STAR
NICK LAMBERT



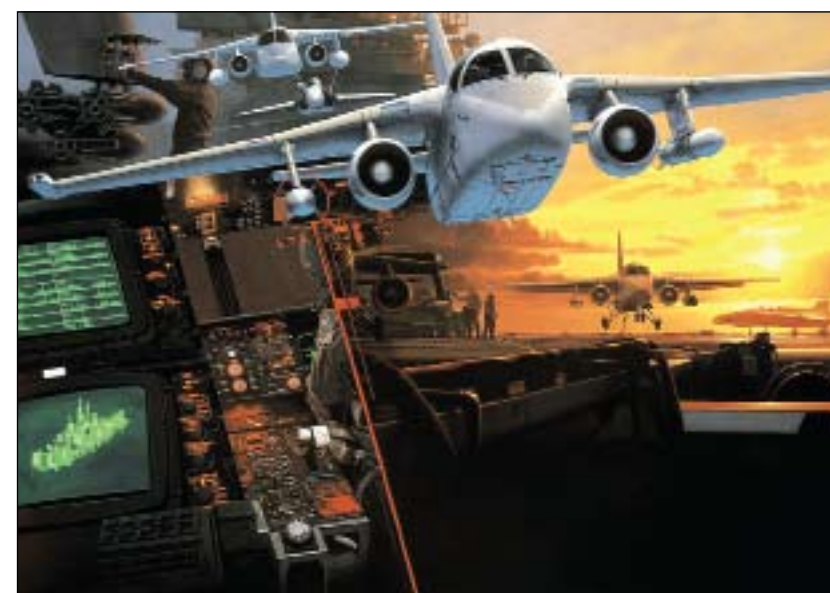
A PRESIDENTIAL FIRST
TOM FREEMAN



VIKING
DON FEIGHT



SPLASH AND GO
HANK CARUSO



S-3 COLLAGE
SYD MEAD



VALHALLA BOUND
HANK CARUSO



TWIN-TAILED DRAGONS
WADE MEYERS



LINDBERGH'S SECRET
DOMENIC DENARDO



GREAT SPECKLED BIRD
GEORGE GUZZI



INDOOR LIGHTNING
CHARLES THOMPSON



P-38J LIGHTNING
SHIGEO KOIKE



RUNNING THE GAUNTLET
GEORGE GUZZI



CIRCUS OUTBOUND
KEITH FERRIS



LINDBERGH'S LOCKHEED SIRIUS
C. G. HODGSON



MODEL 5B VEGA
SHIGEO KOIKE



PALMGREN, COOLEY, AND HARVEST REAPER
KEITH FERRIS



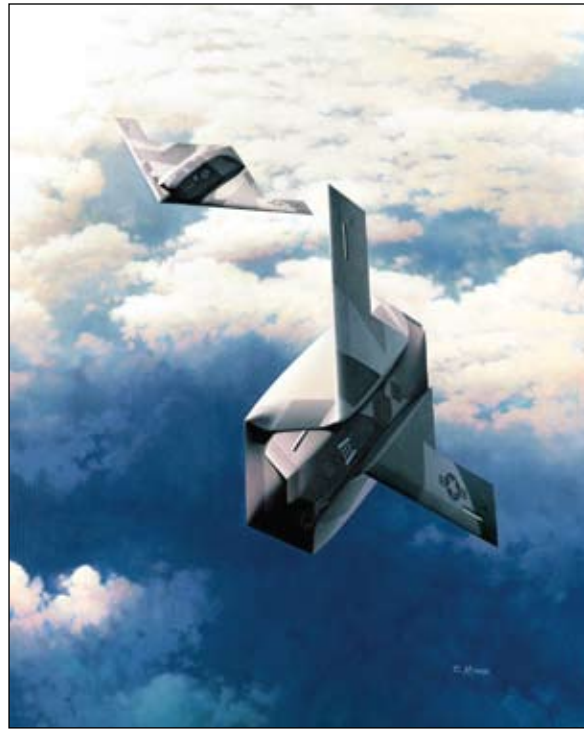
SHELL LIGHTNING
SAM LYONS



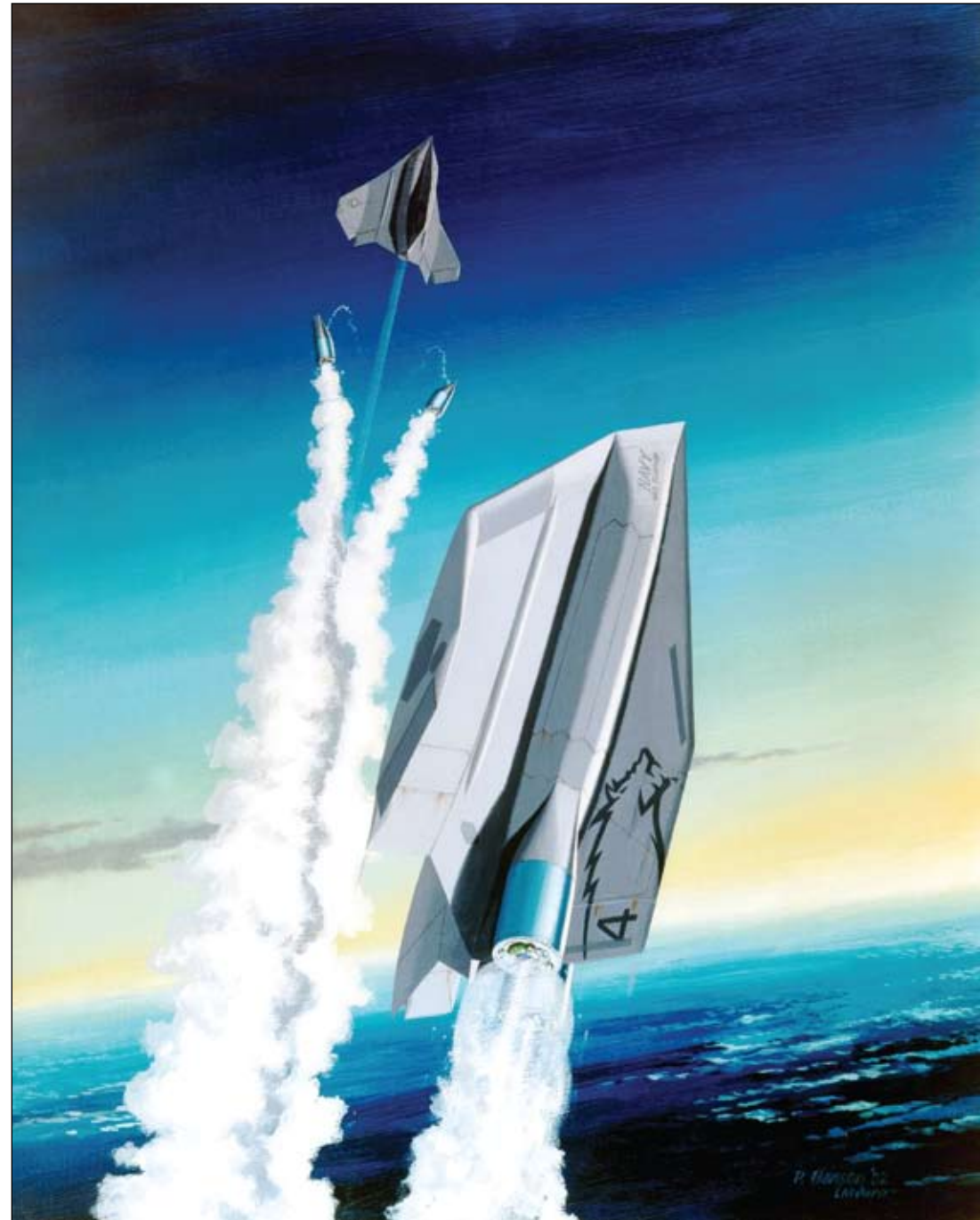
MISS LIBERTY GOES TO WAR
RONALD WONG



LOW-LEVEL STRIKE
RONALD WONG



MORPHING VEHICLE
EDDIE MOORE



UP AND AWAY
PRUITT BENSON



FB-22 DESIGN STUDY
EDDIE MOORE



FLIGHT C
WAYNE BEGNAUD



LOITERING DAY
WAYNE BEGNAUD



CORMORANT
EDDIE MOORE



Jean Barbaud Barbaud is an aviation cartoonist and comics artist. He has been drawing monthly aircraft cartoons for the French magazine *Le Fana de l'Aviation* since 1983. Most of these drawings, ranging from SPAD XIII to F-22, are included in his books, *Gueules de Zings* and *Pompiers en Zings*. Some of his cartoons have run in the Experimental Aircraft Association's *Warbirds* magazine. <http://jeanbarbaud.blogspot.com>



Wayne Begnaud Begnaud's passion for aerospace began in December 1968 as he watched television images of the lunar surface broadcast live from Apollo 8. He also drew inspiration from renowned space artist Robert McCall. His passion for aerospace is now expressed with the computer-generated images he creates for the Lockheed Martin Skunk Works.



Pruitt Benson Benson was an artist for General Dynamics/Lockheed Martin in Fort Worth, Texas, for nearly forty years. He supported Advanced Design Engineering with conceptual sketches including some of the first drawings of what became the F-111, F-16, F-22, and F-35. His works have been seen on magazine covers and used for presentations to heads of programs and countries.



Dru Blair Blair discovered his artistic ability in college. He started as an airbrush artist painting shirts before transitioning to commercial illustration and winning a National Airbrush Excellence Award. He produced his first aviation painting in 1989. His work has been featured on dozens of magazine covers and in hundreds of magazines and books. www.drublair.com



Hank Caruso Caruso's award-winning Aerocatures first appeared in the March 1981 issue of *Naval Aviation News*. What makes these distinctive drawings so popular is the truth they portray and the characters the carefully drafted illustrations represent. This creative accuracy comes from Hank's unique combination of professional experiences as an artist and as an aerospace engineer. www.aerocatures.com



Bob Cunningham Cunningham began his thirty-six year career with General Dynamics in the company's preliminary design group in 1955. He created the first cover of *Code One Magazine* in 1985. *YF-16 Prototype*, one of the very first paintings of the F-16, depicts the first prototype in a red-white-blue paint scheme that Cunningham himself designed. He passed away in 1991.



Domenic DeNardo As a child, DeNardo drew the warplanes he saw flying from nearby airfields during World War II. Although mostly self-taught, he received formal art training at the Rhode Island School of Design. His work has appeared in *Aviation Week & Space Technology*, *Business & Commercial Aviation*, *Time*, *The Wall Street Journal*, and in many other publications.



Dan Erdmann Erdmann has had a distinguished thirty-five year career conveying captivating visual stories as an illustrator and painter for the aerospace and automotive industries. His true passion is painting planes, trains, and automobiles—anything with wheels and an engine. His works hang in boardrooms and corporate headquarters nationally and internationally.



Don Feight Many of Feight's paintings were inspired by his flying experiences. He attempts to place the viewer in a perspective not possible from the everyday ground-based vantage point. His passion for aviation and art led him to become an avid modeler, which culminated in building and flying his own full-size airplane—a home-built Glasair RG. www.feightstudios.com



Keith Ferris Ferris' aviation art career spans more than fifty years. Active in the Air Force Art Program for more than forty years, he has traveled worldwide with the Air Force. He has flown in many types of jet aircraft in the Air Force inventory. Ferris is a founding member and past president of the American Society of Aviation Artists. www.keithferrisart.com



Tom Freeman Freeman never had formal art training. After leaving the armed forces, he would visit the US Naval Institute and take samples of his work to audition. One painting was eventually chosen for the cover of *Proceedings*, the Institute's magazine, launching his career. Since then, his work has appeared in numerous books and magazines. Eight of his paintings hang in the White House. www.tomfreemanart.com



George Guzzi Guzzi has completed more than eighty paintings for the US Air Force Art Program, the US Army, the US Navy, and NASA. He has participated in many exhibitions and has illustrated numerous publications. Guzzi graduated from the Art Institute of Boston in 1959. He was a member of the faculty from 1959 to 1964.



Steve Hall Hall is a graphic designer with Lockheed Martin in Fort Worth, Texas, where he has spent twenty years producing a wide range of computer-based designs and illustrations. He has won several Addy Awards for his creations. Hall graduated from the University of North Texas with a degree in advertising design.



Mickey Harris Harris is an internationally renowned airbrush artist who has been painting for more than thirty years. He founded *Airbrush Magazine* in 1994 and has twice served as president of the International Airbrush Association. His works have appeared in numerous publications and as nose art on nine B-1 bombers. He frequently gives airbrushing seminars. He has also received numerous awards for his motorcycle art. www.mickeyharrisart.com



Kristin Hill Hill's works depict the man-made aspects of aviation and the natural environment of flight. She draws on her formal education in fine arts, a lifetime in a family aviation business, and a broad diversity of flight experiences. A Fellow of the American Society of Aviation Artists, she has been active in the Air Force Art Program since 1980. www.kristinhillartist.com



C. G. Hodgson Hodgson was a longtime illustrator for the then-Lockheed California Company and the Skunk Works. His art appeared in numerous advertisements and company promotional literature. His works showing historic legacy Lockheed aircraft were first used to illustrate a 1988 special edition of *Lockheed Horizons Magazine* that highlighted famous moments in company history.



Michael Kane The Cleveland Air Show fed Kane's early artistic interests in aviation and set him on a course that continues today. His personal paintings focus on aircraft and the people who fly them. He currently operates a successful interior mural and faux finish business in Denver. He graduated from the Columbus College of Art and Design.



Mike Keville Keville is a self-taught amateur artist whose works have appeared four times in CAE/SimuFlite's annual Horizons of Flight exhibit at the Dallas-Fort Worth International Airport. He has also had numerous works reproduced in model aircraft magazines. A lifelong model builder, he has drawn and painted airplanes since he was old enough to hold a crayon.



Shigeo Koike Koike's works, the products of many years of labor, are presented every year as model box art for Hasegawa Corporation and as calendar illustrations for Fuji Heavy Industries. His images depict realistic and fascinating expanses of transparent space and flying airplanes enveloped in light. They are admired by fans worldwide.



Nick Lambert Lambert has had an interest in drawing airplanes since age four. Following a career in the US Air Force where he was a navigator on B-47s and B-58s, he worked in the marine industry as a risk manager. That job inspired him to create maritime art that hangs in museums and corporate offices.



Sam Lyons Lyons' interest in aviation was prompted at an early age by his father, who was a B-24 pilot during World War II. Sam always had a fascination for art. In 1985, he decided to pursue his dream of becoming a full-time artist, and he has since developed his own unique super-realistic style. www.lyonsstudio.com



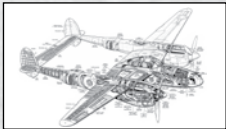
Mike Machat Machat has been fascinated with aviation since childhood when he spent weekends sketching planes at New York area airports and trading his artwork for rides in the aircraft. He served as a technical illustrator in the US Air Force and worked in the aerospace industry before establishing his studio in 1984. He was the first president of the American Society of Aviation Artists.



Syd Mead Mead is a renowned artist, animator, and author. During his professional career, which began at age nineteen, he has dressed windows for retailers, styled cars for Ford Motor Company, and created the futuristic look for numerous science fiction movies. He also turned down significant job offers by famed industrial designer Raymond Loewy and Chrysler Corporation. www.sydmead.com



Wade Meyers Meyers grew up an Army brat with helicopters buzzing overhead. His work with the 8th Air Force Museum at Barksdale AFB, Louisiana, which spanned almost two decades—first as an eighteen-year-old volunteer and later as a paid employee—provided a close-up view of the military aircraft he would later capture on canvas. <http://wademeyersart.tripod.com>



Max Millar Millar is considered the father of technical magazine illustration. He produced his first drawings for *Flight Magazine* (now *Flight International*) in 1912. Each of his drawings was essentially a large and complex freehand sketch done with only a straightedge. They were accurate nonetheless. After scores of cutaway drawings, he retired in 1961. He passed away in 1973 at age eighty-three.

Eddie Moore A tribute to Moore can be found in the introduction to this issue of *Code One*.



Giuseppe Picarella Picarella was infatuated with aircraft and fascinated by anything mechanical. From an early age, he never resisted mentally dissecting things and then sketching them. A chance encounter with an issue of *Flight International* and an encouraging letter from the magazine's art department set him off on his life's direction. He is now the senior technical artist for *Flight*.



Sharon Rajnus Rajnus was an artist before she learned to fly in the 1970s. This new perspective on aircraft and flight became a compelling part of her new work. She comes to aviation in particular from a father who worked with Lockheed Aircraft during World War II. This heritage serves to strengthen the believability of the scenes she creates. www.rajnusart.com



K. Price Randel Randel has always loved aircraft. During his twenty-two year career with Lockheed Martin in Fort Worth, Texas, he produced several hundred paintings. He produced forty-five illustrations for *Code One* alone, ten of which were covers. He retired from Lockheed Martin Aeronautics Company in 2008. A graduate of the University of Kansas, Randel is a veteran of the US Navy and served a tour in Vietnam.



Masao Satake Satake has produced box cover art for Hasegawa, Tamiya, and Fujimi model companies, as well as for a number of Sega computer games. His works regularly appear in *Koku-Fan*, the Japanese aviation magazine. He produced twenty-four original paintings to illustrate the life of Japanese ace Saburo Sakai for the 2003 book *The Samurai: Illustrated Story of the Greatest Zero Pilot*.



Dave Schweitzer Schweitzer has been drawing and painting since childhood, always believing that art would be his career. In 1986, he realized that career when he began freelancing. Recent clients include American Airlines and the National Football League. In 1990, Schweitzer became a member of the Air Force Art Program. He is a graduate of the Milwaukee Institute of Art and Design.



Craig Slaff Slaff is a member of both the American Society of Aviation Artists and the American Society of Marine Artists. He is an active member of the Coast Guard Art Program, has works in their archives, and shows in several galleries. He and his family reside in a self-designed house in New Jersey that he calls his work in progress.



Mimi Stuart Stuart trained at the Art Center of Pasadena in California. Her earlier schooling in Spain and Germany and travels in tropical countries inspired her love for vivid colors. Her professional background in animation and book illustration led to a passion for bringing canvas to life. Her unique style of Kinetic Expressionism reflects a spirit of optimism and ability. www.mimiart.com



Charles Thompson Charles Thompson styled automobiles for Ford Motor Company for thirty-seven years and then switched to creating aircraft paintings. He is a Fellow in the American Society of Aviation Artists, a full member and past chairman of the British Guild of Aviation Artists, and Master Artist of the Experimental Aircraft Association. His number one aim in painting is to capture light in his works. www.btinternet.com/~charlesthompson/index.html



Richard E. Thompson Richard Thompson is an internationally recognized artist with thirty-five years of experience, which includes twenty-seven years as a technical illustrator with Lockheed Martin in Orlando, Florida. Among his artistic accomplishments, this former high school art teacher provided illustrations for authors Richard Bach and Martin Caidin. He also created commissioned paintings for Sen. Barry Goldwater and Gen. Jimmy Doolittle.



Thierry Thompson Thierry (pronounced *Terry*) Thompson wanted to be an artist from the time he first held a crayon. His first love was automobiles, including spending several years building and engineering open-wheeled formula racecars. An award-winning artist and illustrator, he is a member of the Air Force Art Program. His unique experiences flying have had a direct effect on his aviation art. www.thierrythompson.com



Paul Treleven Treleven is a self-taught aviation artist based in Pretoria, South Africa, where he served in the world's second oldest air arm, the South African Air Force. After nearly ten years as a flight paramedic on helicopter ambulance services around South Africa, he tried his hand at painting. He works only in oils and strives to achieve photorealistic images.



Ronald Wong Wong's precise and dramatic works are a familiar sight at air bases in Western Europe and in the United States. After years working in the British Health Service, he embarked on a career in painting his childhood love, aircraft. Self-taught, he developed his own unique style, combining expert technical accuracy with dynamic composition, color, and atmosphere. www.ronaldkwong.com

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