EXPLORIT
YVERDON-LES-BAINS

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VIP SPONSORS DINNER

LEGENDS OF SPACE

AN RMS ENTERTAINMENT SWISSAPOLLO PRODUCTION
IN PARTICIPATION WITH NASA

LEGENDS OF SPACE

HUMANKIND'S GREATEST ADVENTURE CONTINUES

GEMINI AND APOLLO LEGEND **DAVE SCOTT**
APOLLO LEGEND **CHARLIE DUKE**
APOLLO LEGEND **GERRY GRIFFIN**
12TH NASA ADMINISTRATOR AND NASA COMMANDER **CHARLES BOLDEN**
NASA ASTRONAUT **KATHY SULLIVAN**
NASA CHIEF FLIGHT DIRECTOR **HOLLY RIDINGS**
NASA MULTIMEDIA DIRECTOR **BERT ULRICH**
ESA ASTRONAUT **CLAUDE NICOLLIER**
ESA ASTRONAUT **JEAN-FRANCOIS CLERVOY**
MARK ARMSTRONG AND **KALI ARMSTRONG**
HOSTED BY **LUKAS VIGLIETTI**

PRESENTING PARTNERS

OMEGA

LOCKHEED MARTIN

EPFL

RUAG

HAVILAND DIGITAL

APOLLO TO ARTEMIS

Take an incredible journey through the past, current, and future of human space flight and space exploration, as we tell the continuing story of humankind's greatest adventure.

From the APOLLO program through to present day NASA and global space agencies commitment to landing humans including the first woman, and the next man on the Moon by the mid 2020's via the ARTEMIS program, establishing sustainable missions by the end of the decade, and to the next giant leap for all humanity - sending humans to Mars.

LIVE ON STAGE, legendary figures from the Gemini and Apollo Missions, featuring some of the the highest profile space figures from Space Shuttle, and (ISS) International Space Station Missions, to present day current NASA, and (ESA) European Space Agency Mission Leaders, and commercial space partners.

Featuring *Mark Armstrong*, and *Kali Armstrong*, the son and granddaughter of legendary Apollo 11 Astronaut and Commander *Neil Armstrong*, presenting an emotional special music performance tribute to the heroes of human space flight, and exploration.

An unprecedented immersive live event with the participation of NASA, featuring mind blowing theatrical screens, exclusive mission footage, audio, and music, state of the art lighting, and production elements.

An RMS ENTERTAINMENT SWISSAPOLLO production presented by OMEGA, LOCKHEED MARTIN, RUAG, EPFL, and HAVILAND DIGITAL. This is….LEGENDS OF SPACE.

A once in a lifetime live theatrical experience at the SwissTech Convention Center in Lausanne Switzerland, to an estimated combined audience of 6000 across two extraordinary events, including a matinee free children's show of up to 3000 to inspire the next generation, with a French and English speaking show on Friday 18th March 2022, and an English speaking show on Saturday 19th March 2022.

ASTRONAUT CHARLIE DUKE
APOLLO 16

THIS IS LEGENDS OF SPACE

SWITZERLAND 2022

STANDING ON THE SHOULDERS OF LEGENDS FROM THE ERA OF *APOLLO*, NASA IS COMMITTED TO LANDING HUMANS, INCLUDING *THE FIRST WOMAN* AND THE NEXT MAN ON THE MOON BY THE MID 2020'S.

THROUGH THE AGENCY'S ARTEMIS LUNAR EXPLORATION PROGRAM, NASA WILL COLLABORATE WITH COMMERCIAL AND INTERNATIONAL PARTNERS TO ESTABLISH A SUSTAINABLE PRESENCE ON THE MOON.

USING INNOVATIVE NEW TECHNOLOGIES AND SYSTEMS TO EXPLORE THE MOON, WHAT WE USE AND WILL LEARN ON AND AROUND THE MOON WILL TRANSCEND TO THE NEXT GIANT LEAP FOR ALL HUMANKIND -

SENDING HUMANS TO *MARS*.

COMMANDER DAVE SCOTT
APOLLO 15

LEGENDS OF SPACE

March, the 17th 2022

ENJOY OUR EXCLUSIVE DINNER AT EXPLORiT

4:00 p.m. : Greeting in the EXPLORiT's Atrium
4:15 p.m. : Sciencity exhibit's visit - On the way to the stars
5:00 p.m. : Aperitif in the Atrium
6:00 p.m. : Welcoming the guests in Exploria
6:15 p.m. : Exclusive Gala Dinner
9:00 p.m. : Estimated end of the evening

INVITATION-ONLY EVENT

EXPLORiT

Av. Des Découvertes 1
1400 Yverdon-les-Bains

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SwissTech
CONVENTION CENTER

The SwissTech Convention Center is one of the largest conference centers in the Lake Geneva region hosting events of international fame. This majestic building is distinguished by its modernity, its innovative technologies and a warm and experienced team. The SwissTech Convention Center distinguishes itself from other major congress centers by its number of conference rooms and its adaptable capacity. The architecture of the building allows three auditoriums to become one; the number of seats in each auditorium can also be changed in just a few minutes. This modularity is based on two mechanisms: a system of sliding walls, and the Gala Venue technology.

‘A ONCE IN A LIFETIME EVENT’

SHOW TICKETS ARE NOW ON SALE

Presented as the spectacular backdrop for LEGENDS OF SPACE in Switzerland, the *SwissTech Convention Center* is one of the largest conference centers in the Lake Geneva region hosting events of international fame.

Audience participants will have an opportunity to select from tiered seating pricing levels, with exclusive limited Meet and Greet Packages, A-Reserve seating, B-Reserve seating, and C-Reserve seating with concession pricing for students available for both performances. Exciting merchandise, and exclusive space memorabilia will be sold at each show in the SwissTech Convention Center foyers.

Visit the official show website, legendsofspacelive.com and the official show social media @legendsofspace

Show tickets for LEGENDS OF SPACE are now on sale via ticketmaster.ch

LEGENDS OF SPACE

LIVE ON STAGE
MEET THE CAST

LEGENDS OF SPACE APOLLO

GEMINI 8, APOLLO 9 ASTRONAUT, APOLLO 15 COMMANDER AND MOONWALKER

DAVE SCOTT

David Randolph Scott, (born June 6, 1932, San Antonio, Texas, U.S.) he is a U.S. Gemini Astronaut, Apollo 9 astronaut, and was commander of the Apollo 15 mission to the Moon.

After graduation from the U.S. Military Academy at West Point in 1954, Scott transferred to the U.S. Air Force and took flight training. He earned an M.S. in aeronautics and astronautics from the Massachusetts Institute of Technology (MIT) and went to Edwards Air Force Base in California to train as a test pilot. In 1963 he was among the third group of U.S. astronauts chosen.

Scott and commander Neil Armstrong crewed the flight of Gemini 8 (March 16, 1966). They successfully rendezvoused and docked with an uncrewed Agena target vehicle, which was the first space docking, but an electrical failure caused the Agena-Gemini craft to tumble wildly. The Gemini capsule was separated from the Agena. Control was finally reestablished, but the mission had to be aborted. Scott and Armstrong landed 10 hours 42 minutes after takeoff.

Scott served as command module pilot of the Apollo 9 flight with commander James McDivitt and lunar module pilot Russell Schweickart; their mission was launched on March 3, 1969. In Earth orbit these men rendezvoused and docked the command module with the lunar module, which was on its first crewed flight, and they successfully tested all systems necessary for a lunar landing.

On July 26, 1971, Scott, lunar module pilot James Irwin, and command module pilot Alfred Worden were launched on the Apollo 15 flight. After a $3^1/_2$-day trip Scott and Irwin landed on the Moon, at the base of the Apennine Mountains near a gorge called Hadley Rille. Using the Lunar Roving Vehicle, they covered about 28 km (18 miles) on three separate treks and spent more than 17 hours outside their lunar module. The mission returned to Earth on August 7.

From 1972 to 1975 Scott was a member of the administrative staff of the Apollo-Soyuz Test Project. He then became director of the Dryden Flight Research Center at Edwards Air Force Base. He left the space program in 1977 to enter private business in Los Angeles. In 2004 he wrote a book, Two Sides of the Moon: Our Story of the Cold War Space Race, with Soviet cosmonaut Aleksey Leonov.

LEGENDS OF SPACE APOLLO

APOLLO 16 ASTRONAUT AND MOONWALKER
RETIRED USAF BRIGADIER GENERAL

CHARLIE DUKE

Only 12 humans have ever walked on the Moon.

General Charlie Duke was the youngest to do so and one of only four alive today.

Duke was one of 19 astronauts selected by NASA in April 1966, and supported five Apollo missions to the Moon. For Apollo 10, he served on the astronaut support crew. He assumed the role of CAPCOM for Apollo 11 and was back-up Lunar Module Pilot for Apollo 13.

In April 1972, Duke was Lunar Module Pilot of Apollo 16, joined by Commander John Young and Command Module Pilot Thomas Mattingly II. Apollo 16 was the first scientific expedition to inspect, survey and sample materials and surface features in the Descartes region of the rugged lunar highlands. Duke and Young were on the Moon for 71 hours and 14 minutes, of which 20 hours were spent in extra-vehicular activities – setting up and activating scientific equipment and experiments, collecting 213 pounds of rock and soil samples, and using Rover-2 over the roughest and blockiest surface yet encountered on the Moon.

Other Apollo 16 achievements include: largest payload placed in lunar orbit (79,109 pounds); first cosmic ray detector deployed on the lunar surface; first lunar observatory with the far ultraviolet camera; and longest inflight EVA from a command module during trans-Earth coast (1 hour and 13 minutes). With the completion of Apollo 16, Duke logged 265 hours and 51 minutes in space.

Prior to becoming an astronaut, Duke received his commission in the United States Air Force, entered pilot training and received his wings in September 1958. He served three years in Germany as a fighter interceptor pilot with the 526th Fighter Interceptor Squadron at Ramstein Air Base. In 1964, he entered the USAF Test Pilot School at Edwards AFB. He logged 4,147 hours flying time, which includes 3,632 hours in jet aircraft.

Duke retired from government service in December 1975 to enter private business in San Antonio. He joined the USAF Reserves in 1975 and served as Mobilization Augmentee to Commander AF Basic Military Training Center and to Commander USAF Recruiting Service. He was promoted to brigadier general in 1979 and retired in June 1986. Since 1976, Duke has been involved in a wide variety of business and is currently an internationally renowned public speaker on topics that range from delivering under pressure to team preparedness and space exploration.

Charlie Duke earned a bachelor of science in naval sciences from the U.S. Naval Academy in 1957 and a master of science in aeronautics from the Massachusetts Institute of Technology in 1964. He also holds honorary doctorates in philosophy from the University of South Carolina and Clemson University, as well as an honorary doctorate of humanities from Francis Marion College.

LEGENDS OF SPACE APOLLO

APOLLO FLIGHT DIRECTOR OF ALL THE APOLLO MISSIONS
FORMER DIRECTOR JOHNSON SPACE CENTER

GERRY GRIFFIN

Gerry Griffin is the former director of the Johnson Space Center in Houston. In prior NASA positions, he served as deputy director at the Kennedy Space Center in Florida and the Dryden (now Neil A. Armstrong) Flight Research Center in California. At NASA headquarters in Washington D.C., Griffin also held the posts of assistant administrator for legislative affairs, associate administrator for external relations and deputy associate administrator for space flight (Operations).

He joined NASA as a flight controller in Mission Control, specializing in guidance, navigation and control systems for Project Gemini and the early unmanned missions of the Apollo program. Before the first manned mission, Apollo 7, he was selected to be a flight director and served in that role for all of the Apollo manned missions. Griffin was the lead flight director for Apollo 12, Apollo 15 and Apollo 17. His "gold" team conducted half of the lunar landings made during Apollo: missions 14, 16 and 17. His team was scheduled to conduct the landing of Apollo 13. But when the landing was cancelled as a result of an oxygen tank explosion, his team played a key role in the safe return
of the astronauts.

Griffin earned a bachelor of science in aeronautical engineering from Texas A&M University (TAMU) and was commissioned as an officer in the United States Air Force. He served four years on active duty – first in flight training, then flying as a weapon systems officer in jet fighter-interceptors. He left active duty and joined the space program as a systems engineer/flight controller at the USAF Satellite Test Center in Sunnyvale, California. In the private sector, he also held senior engineering positions with Douglas Aircraft and General Dynamics/Fort Worth before joining NASA.

After taking early retirement from NASA, Griffin became president and CEO of the Greater Houston Chamber of Commerce, then later joined Korn/Ferry International,
a worldwide executive search firm, as the managing director of the firm's Houston office.

Today, he is a technical and management consultant for a broad range of clients. He remains a senior consultant for Korn/Ferry International where he conducts search assignments for senior-level executives primarily in the firm's global aerospace and defense practice. Griffin was a founding director of Comerica's Bank of the Hills, Kerrville, Texas; a member of the advisory board of Alpha Space LLC in Houston, Texas; a trustee of Schreiner University in Kerrville, Texas; and a member of the advisory board of the Texas A&M Engineering Experiment Station, College Station, Texas. He is a former member of the Texas Higher Education Coordinating Board, a former trustee of the Universities Space Research Association and a past chair of the TAMU 12th Man Foundation.

Because of his real-life role as an Apollo flight director, Griffin was a technical advisor for the 1995 major motion picture, Apollo 13. He also served as a technical advisor and actor in the movies, Contact and Deep Impact. Griffin is an active general aviation pilot and aircraft owner, and holds a commercial license with an instrument rating for single- and multi- aircraft, as well as helicopters.

LEGENDS OF SPACE

12th NASA ADMINISTRATOR
MAJOR GENERAL U.S. MARINE CORPS (RETIRED)

THE HONORABLE CHARLES F. BOLDEN JR.

First as a Marine Corps Major General and then as NASA Administrator, Charles F. Bolden Jr. has dedicated his life to the service of the United States, working to secure our nation's security, prosperity, and guiding efforts to explore our universe and better understand our fragile planet. In 2009, President Barack Obama appointed Bolden to be the 12th NASA Administrator, making him only the second astronaut to hold that position. While heading NASA, Bolden oversaw the transition from the space shuttle system to a new era of exploration, fully focused on the International Space Station (ISS) and aeronautics technology development.

Bolden led the development of the Space Launch System and the Orion Crew Capsule. Bolden also oversaw the shift toward commercial space initiatives handling resupply of the ISS. He created NASA's Space Technology Mission Directorate, responsible for developing the technology that will make future exploration missions successful. Bolden's tenure included the triumph of the Mars Curiosity Rover landing, the success of the Juno mission that is helping us understand the planet Jupiter more completely, increasing the number of satellites tasked with Earth observation tasks, and continuing progress toward the expected 2021 launch of the James Webb Space Telescope. Not forgetting that the first "A" in NASA stands for Aeronautics, Bolden also focused his attention on NASA's aeronautics programs and the agency's goal of developing airplanes that can travel faster, farther, quieter, and greener than ever before.

During his career as a NASA astronaut, Bolden flew on four space shuttle missions, logging over 680 hours in space. He piloted Space Shuttle Columbia in 1986 (STS-61C) and Space Shuttle Discovery in 1990 (STS-31) – the mission that deployed the Hubble Space Telescope. He also served as Mission Commander on Space Shuttle Atlantis in 1992 (STS-45), and Space Shuttle Discovery in 1994 (STS-60). Bolden also served as Chief of NASA's Safety Division at the Johnson Space Center in the wake of 1986's Space Shuttle Challenger disaster. Bolden also had a long and distinguished military career.

A graduate of the U.S. Naval Academy, Bolden flew over 100 combat missions during the Vietnam War. He later served as a test pilot for the Naval Air Test Center's Systems Engineering and Strike Aircraft Test Directorates. After completing his service as an astronaut in 1994, he served as the Assistant Commandant of Midshipmen at the Naval Academy, and in 1998 as the Commanding General of the Marine expeditionary force attached to Operation Desert Thunder in Kuwait. He last served as Commanding General of the 3rd Marine Aircraft Wing at Marine Corps Air Station Miramar, California, prior to his retirement from the Marine Corps.

Bolden holds a Master of Science Degree in Systems Management from the University of Southern California. His past honors include the Defense Distinguished Service Medal, the Defense Superior Service Medal, the Distinguished Flying Cross, Air Medal, three NASA Exceptional Service Medals and four NASA Space Flight Medals. He received the Rotary National Space Trophy in 2014 and holds Honorary Doctorate degrees from numerous institutions of higher education. He was inducted into the U.S Astronaut Hall of Fame in 2006 and the National Aviation Hall of Fame in 2016. He served as a U.S. Department of State Science Envoy for Space from 2018-2019.

Bolden is married to the former Alexis Walker of Columbia, SC. They have two children, A. Ché Bolden, Colonel, USMC (retired), Dr. Kelly Bolden, MD, and three grandchildren, Mikaley, Kyra and Talia. He serves today as the Founder and CEO Emeritus of The Charles F. Bolden Group LLC, a veteran-owned small business specializing in space/aerospace exploration, national security, leadership, education (STEM+AD) and health initiatives.

LEGENDS OF SPACE

NASA CHIEF FLIGHT DIRECTOR

HOLLY RIDINGS

ARTEMIS

Holly Elizabeth Ridings is an American mechanical engineer, and the first woman to be Chief Flight Director at NASA.

Born in Amarillo, Texas, she attended Texas A&M University, where she studied mechanical engineering and graduated in 1996. Holly was made a member of the NASA Academy, and she took part in a student program at the Goddard Space Flight Center.

Joining NASA in 1998, she worked as an International Space Station flight controller in the Thermal Operations and Resources Group. She eventually became lead for the International Space Station Attitude Determination and Control group. In 2003 she became lead for the Space Station Motion Control Systems Group. In 2005 she was made a flight director. She was lead director for Expedition 16, STS-127 and SpaceX Dragon.

As expedition 16 lead, Ridings was responsible for the crew of the International Space Station for STS-120, STS-122, STS-123 as well as the first Automated Transfer Vehicle mission. During STS-127, Ridings overlooked major construction to the International Space Station, including the addition of the Japanese Exposed Facility and the External Platform. Ridings was promoted to Deputy Chief Flight Director. Holly was responsible for the safety of the International Space Station crew during the SpaceX Dragon Demo.

In September 2018 Ridings was announced as the Chief Flight Director at NASA, and is responsible for 32 flight directors who are overseeing human spaceflight.

Holly oversees missions to the International Space Station, the Orion spacecraft, ARTEMIS Missions, as well as all integrating trips of commercial crew spacecraft.

LEGENDS OF SPACE

NASA MULTIMEDIA DIRECTOR

BERT ULRICH

Bert Ulrich acts as NASA's liaison with the entertainment community (film, television, music, etc.) and oversees NASA's participation in entertainment-oriented projects.

Mr Ulrich collaborates closely with studios and production companies, television networks, and cable channels and oversees up to and over 100 documentaries and films annually.

Feature film collaborations include, but not limited to; Ad Astra, First Man, Hidden Figures, The Martian, Tomorrowland, The Avengers, Transformers: Dark of the Moon, Men in Black 3 and many TV programs including; The Late Show with Stephen Colbert, Ellen, The Tonight Show, Daily Show and the Big Bang Theory.

LEGENDS OF SPACE

FORMER NASA ASTRONAUT AND FIRST AMERICAN WOMAN TO WALK IN SPACE

DR. KATHY SULLIVAN

The first American woman to walk in space, Kathy Sullivan is a veteran of three shuttle missions and a 2004 inductee to the Astronaut Hall of Fame.

In 1993, Dr. Sullivan left NASA to accept a Presidential appointment to the post of Chief Scientist at the National Oceanic and Atmospheric Administration (NOAA). Here she oversaw a wide array of research and technology programs ranging from climate and global change to satellites and marine biodiversity.

From 1996 to 2006, Dr. Sullivan served as President and CEO of COSI (Center of Science & Industry) in Columbus, Ohio. Under her leadership, COSI strengthened its impact on science teaching in the classroom and its national reputation as an innovator of hands-on, inquiry-based science learning resources.

Dr. Sullivan then served as the inaugural Director of the Battelle Center for Mathematics and Science Education Policy in the John Glenn School of Public Affairs at The Ohio State University.

Dr. Kathryn Sullivan was confirmed by the Senate as the Under Secretary of Commerce for Oceans and Atmosphere and NOAA Administrator on March 6, 2014, having served as Acting NOAA Administrator since February 28, 2013.

Prior to her appointment as Acting Administrator, Dr. Sullivan held the position of Assistant Secretary of Commerce for Environmental Observation and Prediction and Deputy Administrator. As Assistant Secretary, Dr. Sullivan played a central role in directing Administration and NOAA priority work in the areas of weather and water services, climate science and services, integrated mapping services and Earth-observing capabilities. She also provided agency-wide direction with regard to satellites, space weather, water, and ocean observations and forecasts to best serve American communities and businesses.

Selected by NASA in January 1978, Dr. Sullivan became an astronaut in August 1979. Her Shuttle support assignments since then include: software development; launch and landing lead chase photographer; Orbiter and cargo test, checkout and launch support at Kennedy Space Center, Florida; extravehicular activity (EVA) and spacesuit support crew for several flights; and capsule communicator (CAPCOM) in Mission Control for numerous Shuttle missions. A veteran of three space flights, Dr. Sullivan was a mission specialist on STS-41G (October 5-13, 1984), STS-31 (April 24-29, 1990) and STS-45 (March 24-April 2, 1992).

With the completion of her third mission, Dr. Sullivan logged more than 532 hours in space.

Her submersible dive to the Challenger Deep in June of 2020 made her the first person to both orbit the planet and reach its deepest point, as well as the first woman to dive to full ocean depth.

She currently serves on the boards of International Paper, Accenture Federal Services, the National Audubon Society and Terra Alpha Investments, and is a Senior Fellow at the Potomac Institute for Policy Studies.

Kathy is the author of the children's book To the Stars! (Charlesbridge Press, 2016) and Handprints on Hubble, An Astronaut's Story of Invention (MIT Press, 2019).

LEGENDS OF SPACE

LEGENDARY SWISS ESA SPACE SHUTTLE ASTRONAUT

CLAUDE NICOLLIER

Claude Nicollier, (born Sept. 2, 1944, Vevey, Switz.), is a Swiss test pilot and Astronaut, and the first Swiss citizen to travel into space.

Nicollier qualified as a pilot in the Swiss Air Force in 1966. He earned a B.S. in physics from the University of Lausanne in 1970. He attended the Swiss Air Transport School in Zurich and qualified as an airline pilot in 1974, receiving an assignment as a DC-9 pilot for Swissair. He earned a M.Sc. degree in astrophysics from the University of Geneve in 1975.

Nicollier joined the European Space Agency's (ESA's) space science department in 1976, working as a research scientist at its facilities in Noordwijk, Neth. In 1978 ESA selected him as a candidate for a payload specialist seat on the first Spacelab mission. In July 1980 Nicollier was dispatched to the National Aeronautics and Space Administration's (NASA's) Johnson Space Center in Houston, where he received mission specialist training with other NASA astronaut candidates.

Nicollier served as a mission specialist on four flights, logging a total of more than 42 days in space. On STS-46 he flew on the space shuttle Atlantis, which launched into space on July 31, 1992, and returned on August 8. During the eight-day mission, the crew deployed the European Retrievable Carrier science platform and conducted the first test flight of the Tethered Satellite System, which deployed only to 256 metres (840 feet) of its full extent of 20 km (12 miles) owing to technical problems with a jammed tether line. STS-61 on the space shuttle Endeavour lasted from Dec. 2 to Dec. 13, 1993, and was the first servicing and repair mission to the Hubble Space Telescope (HST), which fixed an optical defect that was causing fuzzy images and restored the telescope to its full capacity. His third flight was on the STS-75 mission, which lasted 15 days on the Columbia space shuttle, launching on Feb. 22, 1996, and returning on March 9. The astronauts conducted numerous microgravity experiments during the mission, including an investigation of the formation of dendrites in metal and an examination of how metals solidify in microgravity.

Nicollier's final spaceflight took place between Dec. 19 and 27, 1999, on the STS-103 mission aboard the Discovery space shuttle; this was another repair and servicing mission to the HST. Nicollier participated in his first spacewalk during this mission, installing a new computer and one of three fine-guidance sensors to the HST. He become the first European to spacewalk on a shuttle flight.

Although he was technically based at ESA's European Astronaut Centre in Cologne, Ger., Nicollier remained at NASA's Astronaut Office until the end of his astronaut career, performing numerous technical assignments there. He served as the head of the Astronaut Office's Robotics branch from 1996 to 1998. In 2000 Nicollier was assigned to the Extravehicular Activity (EVA) branch, which was in charge of spacewalks, and he also served as the lead ESA astronaut in Houston.

Nicollier retired from the Swiss air force as a captain in 2004 and from ESA in 2007. In 2004 he started teaching at the École Polytechnique Fédérale in Lausanne, Switz., where he became a full professor in the electrical engineering department in 2007. He also holds a concurrent appointment as a full professor in the school's Space Center.

LEGENDS OF SPACE

PRESIDENT OF NOVESPACE
ESA SPACE SHUTTLE ASTRONAUT

JEAN-FRANCOIS CLERVOY

Jean-Francois Clervoy (JFC) is an astronaut with the European Space Agency (ESA) and President of Novespace. An Armaments General Engineer, he is currently a reservist with the French Ministry of Defense.

Immediately after completing his studies at the Ecole Polytechnique, JFC asked to be posted by the Directorate General of Armaments to the French National Center for Space Studies (CNES) to work on flight control systems for spacecraft. Adventurous by nature, he earned his private pilot's license, along with civil and military qualifications in parachuting and diving. He was selected for the second corps of French astronauts in 1985, the second corps of European astronauts in 1992, and the fourteenth corps of NASA astronauts the same year.

Over the course of his career, JFC has become an expert in space technology, including in on-orbit rendez-vous and robotic operations, and related flight control interfaces. His responsibilities have included the design of on-orbit monitors or the international space station (ISS). In 2009, he was also a member of the selection panel and then coach for new European astronauts.

JFC has completed three space missions. He joined the mission on the space shuttle Atlantis in 1994 to study the atmosphere and in 1997 to resupply the Russian space station Mir, and in 1999 he joined Discovery as a member of the Hubble space telescope repair crew. He has completed 439 terrestrial orbits at a variety of altitudes and orbital inclinations.

For his test flight engineering thesis in 1987, JFC produced a detailed modeling of parabolic flight features adapted to various aircraft types and conducted Alpha Jet flight tests. JFC was appointed chief flight engineer on the first scientific parabolic flights program in Europe, which he called "Zero-G", and made weightless flights on Caravelle, Airbus A300, KC135 and Iliouchine 76 before joining the ESA and then NASA in 1992. The program has since been delegated to Novespace. On his return to Europe in 2006, he was seconded part-time by the European Astronaut Centre as CEO of Novespace.

In 2013, he put his plans to open up parabolic flights to the public into practice. Novespace created the "Air Zero G" brand and JFC decided to take part in each flight alongside these "astronauts for a day" as he likes to call them!

To date, JFC has accumulated, on parabolic flights, the equivalent of 16 weightless terrestrial orbits and the equivalent of the Apollo 11 mission in lunar gravity. His favorite zero-gravity acrobatic feat consists in sitting upside down on the ceiling of the aircraft cabin.

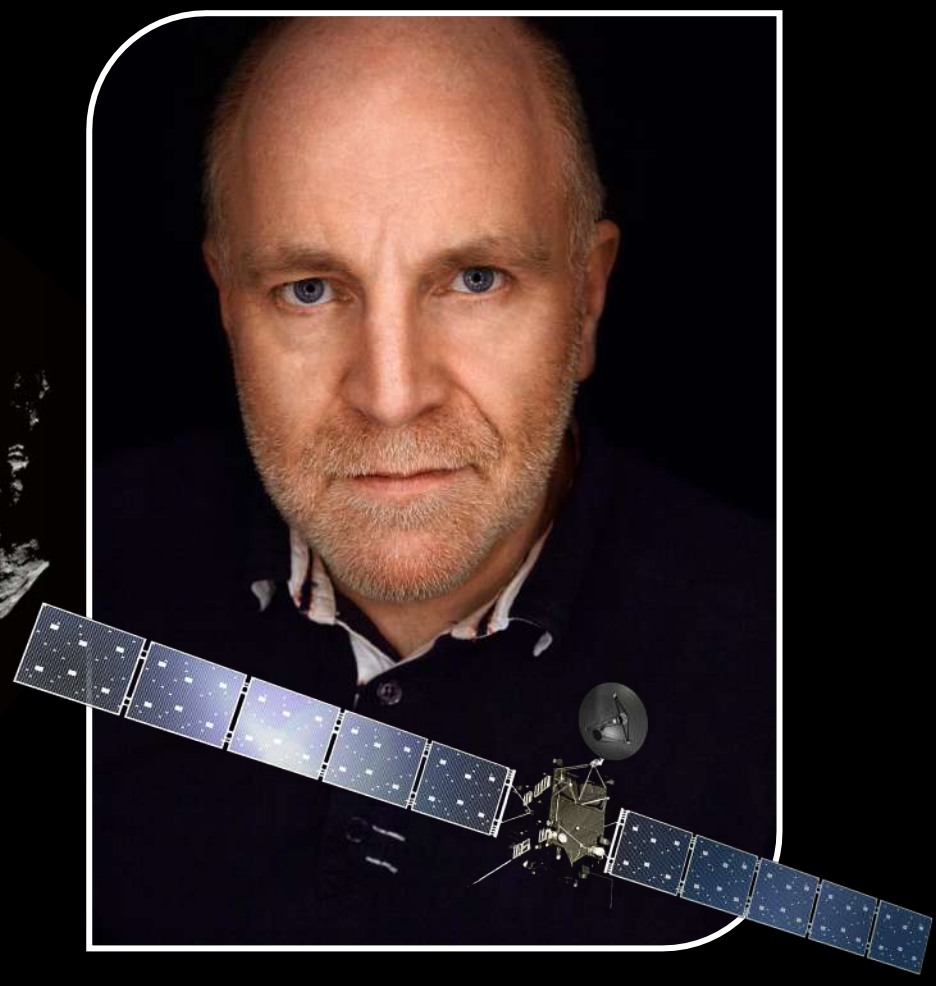
Awarded three Space Flight medals and two Outstanding Service medals by NASA, in France JFC is an Officer of the National Order of the Legion of Honor and Knight of the National Order of Merit.

He was also awarded the Aeronautics Medal. Member of several organizations that promote space travel and action on the environment, JFC has also written a number of books.

LEGENDS OF SPACE

(ESA) SENIOR ADVISOR FOR SCIENCE AND EXPLORATION

PROF. MARK McCAUGHREAN



Mark McCaughrean is a British astrophysicist and Senior Advisor for Science & Exploration at the European Space Agency, based in The Netherlands. He is responsible for the scientific results from ESA's space science, human spaceflight, and robotic exploration missions to ESA's advisory committees, the scientific community, and general public.

Mark has always been fascinated by the world and universe around us and how science allows us to explore and understand them, and born a few weeks before Yuri Gagarin's pioneering first human spaceflight, he set his early sights on becoming an astronaut. He learned to fly at 17 via a Royal Air Force scholarship and continued flying with the RAF while studying astrophysics as an undergraduate at the University of Edinburgh.

Mark then completed a PhD, working at the Royal Observatory Edinburgh as part of the team building the first common-user infrared imaging system for astronomy, deployed on the 3.8-meter diameter United Kingdom Infrared Telescope on the summit of Maunakea in Hawai'i in 1986. He used the camera to make one of the first high-resolution, wide-field infrared images of the Orion Nebula, the nearest region of massive star formation to the Sun, and has been studying the birth and evolution of stars and their planetary systems ever since.

Postdoctoral work on a thermal-infrared camera system at NASA's Goddard Space Flight Center in Maryland was followed by a move to the University of Arizona to work on a second-generation infrared camera for the Hubble Space Telescope, and subsequent positions at the Max-Planck-Institute for Astronomy in Heidelberg, the Max-Planck-Institute for Radio Astronomy in Bonn, and the Astrophysical Institute Potsdam. Working with his collaborators, he used Hubble and telescopes in Hawai'i, Arizona, and Chile to make discoveries of protoplanetary disks around young stars, jets and outflows emanating from protostars, and the nearest known brown dwarfs, "failed stars", to the Sun.

He also became a member of the ESA and NASA science teams for the Next Generation Space Telescope, a very large infrared wavelength successor to Hubble, and now known as the James Webb Space Telescope, due for launch in October 2021. Since 2001, Mark has been an Interdisciplinary Scientist for the mission and will be using it to continue his studies of the Orion Nebula and other star-forming regions with unprecedented detail and depth.

Mark led two European Commission research training networks involving teams from across Europe working on star formation and took up a professorship at the University of Exeter in 2004. But after five years, the lure of space proved irresistible, and he moved with his family to The Netherlands to take up the position of head of the Research & Scientific Support Department at ESA's ESTEC in Noordwijk, home to the project scientists for all of ESA's astronomy, planetary, and heliophysics missions.

His team were also responsible for communications, outreach, and education associated with these missions, and he became closely involved in talking to the media and wider public about the science of the missions, most notably ESA's comet-chaser, Rosetta, which arrived at Comet 67P/Churyumov-Gerasimenko in 2014 and placed the small lander, Philae, on its surface. The stunning success of the mission and its high public interest led to many invitations to give talks around the world, to take part in documentaries, and to work with artists, musicians, writers, and actors who became aware of ESA's work and wanted to collaborate.

Mark's passion for the public engagement in science and the need for rational evidence-based policy to address many of the key challenges facing humankind led to the establishment in 2017 of the multi award-winning "Space Rocks". A partnership between ESA and a UK company, Space Rocks runs large public events and online livestreams involving space scientists, astronauts, actors, writers, film-makers, and musicians, to discuss and develop the mutual interest and inspiration spanning these fields, as well as to entertain.

Mark enjoys photography and making strange noises on synthesisers, and makes good use of the excellent cycling infrastructure of The Netherlands.

LEGENDS OF SPACE

EXCLUSIVE MUSIC PERFORMANCES

KALI ARMSTRONG AND MARK ARMSTRONG

WITH BAND

Kali Armstrong is a singer-songwriter with immense passion for the natural world. Focus on world issues, the environmental crisis, and our humanity are common threads in her musical tapestry, summoning the heart to savor the wonders of our planet.

In the summer of 2019, Kali performed her first recorded song "Flight of Fancy" with her father, Mark, at Carnegie Hall, and the John F. Kennedy Center for Performing Arts. She also starred in and wrote original music for the play "Howl: A Montana Love Story." In addition to her solo work, Kali is currently involved in multiple musical projects including the Montana-Havana Bridge Project and the Pink Floyd tribute band "Pinky and the Floyd".

Kali currently lives in Helena, Montana where she works as a naturalist and performing artist, drawing inspiration from the vast wilderness that surrounds her.

Kali is the daughter of Mark and Wendy Armstrong, and the granddaughter of Neil and Janet Armstrong.

Mark Armstrong is a singer-songwriter, public speaker and retired software engineer. Mark wrote and recorded the song "Flight of Fancy" which is featured as the end-credit song in the documentary film "Armstrong". In 2018, Mark portrayed the role of Paul Haney in the film "First Man".

He and his wife Wendy, have three children and reside in Cincinnati, Ohio. Mark is a corporate advisor to several organizations and serves on numerous non-profit boards.

Mark graduated from Stanford University with a degree in Physics, and is the younger son of Neil and Janet Armstrong.

LEGENDS OF SPACE

YOUR HOST

LUKAS VIGLIETTI

SPEAKER. PRODUCER. AIRLINE CAPTAIN. ENGINEER. AUTHOR.

Lukas Viglietti is an engineer, airline pilot, Captain and Commander, flying long haul flights internationally. He is the President of SwissApollo, which he founded together with his wife Bettina, in 2009.

SwissApollo was created to present and produce major live events and profile initiatives associated with the era of the APOLLO Missions. An intense advocate for STEAM, Lukas has established an acclaimed profile by incorporating the educational process that integrates the ARTS into the STEM model for Science, technology, engineering and mathematics, particularly that which is predominately directed to influence and inspire our younger generation.

In early 2019 he created and co-hosted the profile television documentary 'TinTin Moonwalker', with 6-episodes to commemorate the 90th anniversary of TinTin, and the 50th Anniversary of the first steps on the Moon surface. The documentary features luminaries such as Apollo 16 Astronaut and Moonwalker Charlie Duke, acclaimed explorer Bertrand Piccard, and Dominique Maricq.

Lukas has created, produced, and co produced 10 major live space events including founding the international space theatrical experience; 'APOLLO 11 – The Immersive Live Show', attended by some 30'000 audience members during its run at the Rose Bowl stadium in Pasadena California in July 2019.

Having ascertained a masterful knowledge and expertise of the APOLLO Moon Program over some 20 years, Lukas has developed and created an exhaustive and comprehensive catalogue of exclusive interviews and testimonies from legendary APOLLO Astronauts, and European Astronauts in both film and print.

Fascinated and inspired by space, and the extraordinary conquest made by the Astronauts who walked on another world during his childhood, Lukas committed years to conceptualise and author the ground-breaking book, 'APOLLO CONFIDENTIAL' published in 2019. Recording testimonies and interviews from the Astronauts to obtain the human aspect of their incredible journeys, the book presents an unprecedented authenticity, account and insight into one of humankind's greatest adventures, and the human figures who made the impossible, possible.

An accomplished speaker, Lukas has hosted, and co hosted numerous major live events, in addition to providing motivational and career based experiential talks to organisations and the corporate sector.

Lukas resides in Cham Switzerland with his wife and Son.

LEGENDS OF SPACE

‘SPECIAL CHILDREN’S FREE EVENT ANNOUNCEMENT’

Driven by a commitment and passion for S.T.E.M, the show producers of LEGENDS OF SPACE, have made an easy decision to provide a unique opportunity for students, educational teachers and facilitators, including disabled, and other organizations for young people, to witness and become involved with the biggest live space event in Europe for 2022.

To this end, a very special live FREE OF CHARGE condensed LEGENDS OF SPACE show has been developed and will be presented mid morning on Friday 18th March 2022, for approximately one and a half hours inside the SwissTech Convention Center main auditorium. Aimed to attract first and secondary Schools, Universities, other education facilities and organizations who have been invited to attend this very special free performance of LEGENDS OF SPACE.

The show producers of LEGENDS OF SPACE, will cover all associated production expenses for this event, to create and present a separate show experience for children, with a fascinating unique and exciting insight into Human Space Flight and Space Exploration, from the Apollo Missions to present day space technology and innovation, with an emphasis to inspiring our younger generation. This special show will include an exclusive Q&A with selected LEGENDS OF SPACE cast members appearing live on stage, moderated by SWISSAPOLLO CEO and President Lukas Viglietti.

This special event will not be promoted to the general public or media. The show producers will work closely with educational institutions, organizations and facilitators, to invite submissions for large groups and for individual participation, with an objective to engage an audience capacity of up to 3000 of our younger generation.

FEATURING THE EXCEPTIONAL PARTICIPATION OF PATROUILLE SUISSE

In 2017, the *Patrouille Suisse* received the AEROSUISSE AWARD, presented by the Association for Swiss Aviation, which honours accomplishments in support of Swiss aeronautics and aerospace.

With this award, the jury recognised the *Patrouille Suisse* as an ambassador for Swiss values, and Switzerland itself, stimulating interest in aviation acting as a role model, and amplifying the positive image of the Swiss Air Force.

Featuring a special performance to celebrate LEGENDS OF SPACE on Friday 18th March 2022 by *PATROUILLE SUISSE*, flying a formation above the SwissTech Convention Center.

Full details to be announced soon.

AN RMS ENTERTAINMENT SWISSAPOLLO PRODUCTION

LEGENDS OF SPACE

@legendsofspace

OFFICIAL WEBSITE www.legendsofspacelive.com