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Paper 1 Memo  
March 2014

***Life Sciences  
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From the beginning  
of the space age,  
scientists and  
engineers have  
worked on systems to  
help humans survive  
for the astounding

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28,500 days (78 years) needed to reach another planet. They ' ve imagined and tried to create a little piece of Earth in a bubble travelling through space, inside of which people could live for decades, centuries, or even millennia. Far

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Beyond the Moon tells the dramatic story of engineering efforts by astronauts and scientists to create artificial habitats for humans in orbiting space stations, as well as on journeys to Mars and beyond. Along the way, David P. D.

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Munns and K ä r i n  
Nickelsen explore the  
often unglamorous  
but very real problem  
posed by long-term  
life support: How can  
we recycle biological  
wastes to create air,  
water, and even food  
in meticulously  
controlled artificial  
environments?

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Together, they draw attention to the unsung participants of the space program—the sanitary engineers, nutritionists, plant physiologists, bacteriologists, and algologists who created and tested artificial

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environments for  
space based on

chemical

technologies of life  
support—as well as  
the bioregenerative  
algae systems  
developed to reuse  
waste, water, and  
nutrients, so that we  
might cope with a  
space journey of not

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just a few days, but  
months, or more  
likely, years.

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Technical

MemorandumStudy

and Master Life

Sciences Grade 11

CAPS Study

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Guide Monthly  
Catalogue, United  
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Documents Official  
Gazette of the United  
States Patent and  
Trademark  
Office Trademarks In  
Sputnik's Shadow The  
President's Science  
Advisory Committee  
and Cold War



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AmericaRutgers  
University Press

A History of Project  
Gemini

In Sputnik's Shadow  
Nuclear Science

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Far Beyond the  
Moon

First multi-year  
cumulation  
covers six years:  
1965-70.

Scores of  
talented and  
dedicated people  
serve the  
forensic science  
community,

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performing

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vitaly important  
work. However,  
they are often  
constrained by  
lack of adequate  
resources, sound  
policies, and  
national support.  
It is clear that  
change and  
advancements,

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both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best

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practices with  
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consistent  
application.

Strengthening  
Forensic Science  
in the United  
States: A Path  
Forward  
provides a  
detailed plan for  
addressing these  
needs and

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suggests the  
creation of a new  
government  
entity, the  
National Institute  
of Forensic  
Science, to  
establish and  
enforce  
standards within  
the forensic  
science

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community. The  
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benefits of

improving and  
regulating the  
forensic science  
disciplines are  
clear: assisting  
law enforcement  
officials,  
enhancing  
homeland  
security, and

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reducing the risk  
of wrongful  
conviction and  
exoneration.

Strengthening  
Forensic Science  
in the United  
States gives a  
full account of  
what is needed  
to advance the  
forensic science



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disciplines,  
including  
upgrading of  
systems and  
organizational  
structures,  
better training,  
widespread  
adoption of  
uniform and  
enforceable best  
practices, and

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mandatory  
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certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law

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enforcement  
agencies,  
criminal

prosecutors and  
attorneys, and  
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educators.

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ERLTM-NSSL.

A History of  
Project Mercury

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Catalogue,  
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This New Ocean  
Bibliography of  
North American  
Geology,

1929-1939

Gender and

American Social

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Dr. Donald J.

Mrozek's research  
sheds

considerable light  
on how the use of  
air power evolved  
in the Vietnam

War. Much more  
than simply

retelling events,  
Mrozek analyzes

how history,

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politics,  
technology, and  
the complexity of  
the war drove the  
application of air  
power in a long  
and divisive  
struggle. Mrozek  
delves into a  
wealth of original  
documentation,  
and his  
scholarship is

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impeccable. His analysis is thorough and balanced. His conclusions are well reasoned but will trouble those who have never seriously considered how the application of air power is influenced by

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factors far  
beyond the  
battlefield.

Whether or not the  
reader agrees  
with Mrozek, the  
quality of his  
research and  
analysis makes  
his conclusions  
impossible to  
ignore. John C.  
Fryer, Jr.



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Brigadier  
General, United  
States Air Force  
Commander,  
Center for  
Aerospace  
Doctrine,  
Research and  
Education  
Ellen Emmet  
Rand (1875-1941)  
was one of the  
most important

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and prolific  
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portraitists in the  
United States in  
the first decades  
of the twentieth  
century. She  
negotiated her  
career,  
reputation,  
family, and  
finances in  
modern and  
commercially

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savvy ways-  
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revealing the

complex  
negotiations  
needed to  
balance these  
competing  
pressures.

Engaging with  
newly available  
archival  
documents and  
featuring

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scholars with  
radically different  
approaches to  
visual culture,  
this edited  
collection not  
only seeks to  
interrogate the  
meaning of  
Rand's portraits  
and her career,  
but indeed to  
rethink gender,

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art, race,  
business, and  
modernism in the  
twentieth  
century.

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of Titans

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Science

Foundation and

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American

Biological

Research,

1945-1975

Cumulative

listing

NOAA Technical

Memorandum

EDS ESIC.

Legionnaires'

disease, a

pneumonia

caused by the

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Legionella  
bacterium, is  
the leading  
cause of  
reported  
waterborne  
disease  
outbreaks in  
the United  
States.

Legionella  
occur naturally  
in water from

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many different  
environmental  
sources, but  
grow rapidly in  
the warm,  
stagnant  
conditions that  
can be found in  
engineered  
water systems  
such as cooling  
towers,  
building



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plumbing, and  
hot tubs.

Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system.

Legionnaires'

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disease can be  
fatal, with

between 3 and

33 percent of

Legionella

infections

leading to

death, and

studies show

the incidence

of

Legionnaires'

disease in the

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United States  
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increased five-  
fold from 2000  
to 2017.

Management of  
Legionella in  
Water Systems  
reviews the  
state of  
science on  
Legionella  
contamination  
of water

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systems,  
specifically  
the ecology and  
diagnosis. This  
report explores  
the process of  
transmission  
via water  
systems,  
quantification,  
prevention and  
control, and  
policy and

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training issues  
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that affect the  
incidence of  
Legionnaires'  
disease. It  
also analyzes  
existing  
knowledge gaps  
and recommends  
research  
priorities  
moving forward.

Based on

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formerly  
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untapped

archival

sources as well

as on

interviews of

participants,

and building

upon prior

historical

literature,

Shaping Biology

covers new

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ground and  
raises  
significant  
issues for  
further  
research on  
postwar biology  
and on federal  
funding of  
science in  
general.

July

1962-February

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1964  
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A Path Forward  
Study and  
Master Life  
Sciences Grade  
11 CAPS Study  
Guide  
50 Years on  
From Beverton  
and Holt  
Biomedicine in  
the Manned  
Space Program



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to 1980  
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NASA SP-7500

**Includes**  
**entries for**  
**maps and**  
**atlases.**

**In Sputnik's**  
**Shadow traces**  
**the rise and**  
**fall of the**  
**President's**  
**Science**

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Advisory

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Committee from  
its ascendance  
under

Eisenhower to  
its demise  
during the  
Nixon years.

Zuoyue Wang  
examines key  
turning points  
during the

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twentieth

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century,

including the

beginning of

the Cold War,

the debates

over nuclear

weapons, the

Sputnik crisis

in 1957, the

struggle over

the Vietnam

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War, and the  
eventual end  
of the Cold  
War, showing  
how the  
involvement of  
scientists in  
executive  
policymaking  
evolved over  
time and  
brings new

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insights to  
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the

intellectual,  
social, and  
cultural  
histories of  
the era.

Gender, Art,  
and Business  
Berkeley  
Symposium on  
the

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**Foundations of  
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Accounting  
HumRRO  
Research  
Memorandum:  
Feasibility of  
Developing a  
Task  
Classification  
Structure for  
Ordering**

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Training

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Principles and  
Training

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D.F. Haggard

A History of

Life Support

Systems in the

Space Age

The Formative

Years

Management of

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**Legionella in  
Water Systems**

*Risk assessment  
has become a  
dominant public  
policy tool for  
making choices,  
based on limited  
resources, to  
protect public  
health and the  
environment. It*



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*has been instrumental to the mission of the U.S. Environmental Protection Agency (EPA) as well as other federal agencies in evaluating public health concerns, informing regulatory and*

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*technological decisions, prioritizing research needs and funding, and in developing approaches for cost-benefit analysis. However, risk assessment is at a crossroads. Despite advances*

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*in the field, risk  
assessment faces  
a number of  
significant  
challenges  
including lengthy  
delays in making  
complex decisions;  
lack of data  
leading to  
significant  
uncertainty in risk*

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*assessments; and  
many chemicals in  
the marketplace  
that have not been  
evaluated and  
emerging agents  
requiring  
assessment.*

*Science and  
Decisions makes  
practical scientific  
and technical*

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*recommendations  
to address these  
challenges. This  
book is a  
complement to the  
widely used 1983  
National  
Academies book,  
Risk Assessment  
in the Federal  
Government (also  
known as the Red*

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*Book). The earlier book established a framework for the concepts and conduct of risk assessment that has been adopted by numerous expert committees, regulatory agencies, and public health*

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*institutions. The new book embeds these concepts within a broader framework for risk-based decision-making. Together, these are essential references for those working in the regulatory and public health*

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fields.  
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*This timely book brings readers up to date on the wide range of advances made in fisheries science since the publication in 1957 of On the Dynamics of Exploited Fish Populations*



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*(Beverton and Holt), regarded by many fisheries scientists as one of the most important books on fisheries yet published.*

*Traditional fishery subjects covered include historic declines and*

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*changes in fishing  
fleets, fisheries  
management and  
stock*

*assessments, data-  
poor situations,  
simulation and  
modelling of fished  
stocks, fisheries  
economics,  
assessing  
reproductive*

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*potential and  
dispersal of larvae,  
fisheries for sharks  
and rays, and use  
of marine  
technology.*

*Additionally,  
related subjects of  
increasing  
importance now  
that ecological  
approaches to*

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*management are coming to the fore are presented.*

*They include benthic ecology, ecosystem changes linked to fishing, life history theory, the effects of chemicals on fish reproduction, and use of sounds*

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*in the sea by  
marine life.*

*Several chapters  
offer stimulating  
philosophical  
discussion of the  
many controversial  
areas still existing.*

*This significant  
book, edited by  
Andy Payne, John  
Cotter and Ted*

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*Potter and  
containing  
contributions by  
world-renowned  
fisheries scientists,  
including many  
based at Cefas  
(where Beverton  
and Holt's original  
work was carried  
out) is an essential  
purchase for*

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*fisheries managers  
and scientists, fish  
biologists, marine  
scientists and  
ecologists.*

*Libraries in all  
universities and  
research  
establishments  
where fisheries  
and biological  
sciences are*

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*studied and taught  
are likely to need  
copies of this  
landmark  
publication.*

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Education*

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the Legislative  
Council to the  
Legislature*



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*Air Power and the  
Ground War in  
Vietnam*

*Bulletin*

*Ride Quality*

*Symposium. 1975.*

*Technical*

*Memorandum*

In contrast, this volume draws long overdue attention to the ways in which

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changing gender relations shaped the development and organization of the new social knowledge. And it challenges the privileged position that academic - and mostly male - social science has been granted in traditional histories by showing

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how women  
produced and  
popularized new  
forms of social  
knowledge in such  
places as settlement  
houses and the  
Russell Sage  
Foundation.

The Human Factor  
Strengthening  
Forensic Science in  
the United States

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14th, 1967 :

[papers].

National Union

Catalog

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Memorandum NOS.

Shaping Biology