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Siegel is both a practicing forensic expert and a master instructor. He has worked for the Virginia Bureau of Forensic Sciences and published extensively in the field. He continues to be called upon as an expert witness, having testified over 200 times in state, federal, and military courts across the country. With nearly

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thirty years of teaching experience, he is highly active in curriculum development for forensic science classes taught at all levels, from junior high through graduate school. He is currently director of the Forensic and Investigative Sciences Program at Purdue University in Indiana. In February of 2009, Mr. Siegel received

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the "Distinguished Fellow" award from the American Academy of Forensic Sciences at its annual meeting. This is the highest honor that the Academy bestows upon a fellow. In addition, George Washington University has selected Mr. Siegel for the 2008-2009

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five journal articles and a book chapter that discuss a literature review and four studies. The dissertation studies focus on the inclusion of indigenous knowledge (IK) in science and chemistry education to promote education for sustainable development (ESD). The first chapter analyses the general literature background

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and research framework of the study. This chapter presents an analytical literature review discussed in "A Multi-Perspective Reflection on How Indigenous Knowledge and Related Ideas Can Improve Science Education for Sustainability" (Zidny et al., 2020). It encompasses the theoretical framework, didactic

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model, educational research framework, and the educational values of the inclusion of IK in science and chemistry education. The second chapter outlines the research background of the Indonesian science curriculum and the current state of implementation of ESD in Indonesia. The significance of

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indigenous communities for this study is also presented with a special focus on the Baduy community in the Banten province, Java Island, Indonesia. The profile of the Baduy community is discussed in the book chapter "Indigenous Knowledge as a Socio-Cultural Context of Science to Promote Transformative

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Education for Sustainable Development: Insights into a Case Study on The Baduy Community (Indonesia) ” (Zidny & Eilks, 2018) The third chapter presents four major studies that are part of research-based development of didactic teaching-learning-designs on the inclusion of IK and perspectives into science and

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chemistry education. The first study in this chapter (section 3.1) attempts to map out and explore indigenous, science-related knowledge from the Baduy community. From the findings, an educational analysis was conducted to identify contexts and content for science learning as well as for integrating indigenous science (ISc)

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into socioscientific issues-based education. This study is part of the book chapter by Zidny and Eilks (2018) and a paper entitled "Exploring Indigenous Science to Identify Contents and Contexts for Science Learning to Promote Education for Sustainable Development" (Zidny et al., 2021). The second study in chapter 3

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(section 3.2) focuses on implementing a first teaching intervention on the integration of IK and Western modern science (WMSc) in chemistry education. The teaching intervention adopted model 3 of the ESD-based pedagogical approaches suggested by Burmeister et al. (2012) focusing on the controversial

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sustainability issue of pesticides use. The lesson was implemented in two groups on different educational levels, encompassing upper secondary school and university chemistry student teachers. The lesson's main activities start from the controversial issues of pesticides use to encourage learners to

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think critically, express their arguments, and solve chemistry problems in classroom task activities. Feedback from the learners about the lesson and the learning design was collected.

This study is described in "Integrating perspectives from indigenous knowledge and Western science in secondary and higher chemistry learning

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to contribute to
sustainability education"
(Zidny & Eilks, 2020).

The analysis and
evaluation of the
students' activities is
discussed in the third
study in chapter 3
(section 3.3). This study
attempted to explore the
initial level of students'
arguments and their
ability to link the context
with chemistry concepts.

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Based on the findings, information from the analysis was used to evaluate and improve the learning design. This study is described in "A case study on students' application of chemical concepts and use of arguments in teaching on the sustainability-oriented chemistry issue of pesticides use under the inclusion of different

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scientific worldviews"
(Zidny et al., 2021, under review a). The final study in chapter 3 (section 3.4) focuses on a second teaching intervention on the inclusion of ISc as a starting point to promote green and sustainable chemistry education. The teaching intervention adopted models 1 and 2 of ESD-based approaches suggested by

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Burmeister et al. (2012), namely adopting green chemistry lab practices and content. The lesson was implemented in an environmental chemistry course (elective course) with second-year undergraduate student teachers in Indonesia. This study is described in "Learning about phytochemical aspects of botanical pesticides

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adapted from
ethnoscience as a
contribution to green
and sustainable chemistry
education" (Zidny &
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Chapter 5 summarizes all
the studies in the research
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recently developed
polar

organometallics

and their

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chemistry while

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cooperativity,

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ranging from
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and food
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these same
chemical
processes that
provide*

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is the

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dollars a year,
there is a need
to propose a
way to create
less waste.*

*Emission and
treatment
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continue to
become more
stringent,
which causes*

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*these costs to
continue to
escalate. Green
Chemistry and
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principles of
Green Chemistry
that lead to*

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of less waste.*

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use of milder
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resulting from
the use of
smarter organic
synthetic
techniques and
the maintenance
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can temper the
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processes. By
implementing
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means less
waste, which
will save
industry
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Post) account
of how Nobel
Prize winner*

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*Jennifer Doudna
and her*

colleagues

launched a

revolution that

will allow us

to cure

diseases, fend

off viruses,

and have

healthier

babies. When

Jennifer Doudna

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was in sixth grade, she came home one day to find that her dad had left a paperback titled The Double Helix on her bed. She put it aside, thinking it was one of those detective tales

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she loved. When she read it on a rainy Saturday, she discovered she was right, in a way. As she sped through the pages, she became enthralled by the intense drama behind

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*the competition
to discover the
code of life.*

*Even though her
high school*

*counselor told
her girls*

*didn't become
scientists, she*

decided she

would. Driven

by a passion to

understand how

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nature works

and to turn

discoveries

into

inventions, she

would help to

make what the

book's author,

James Watson,

told her was

the most

important

biological

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*advance since
his codiscovery
of the
structure of
DNA. She and
her
collaborators
turned a
curiosity of
nature into an
invention that
will transform
the human race:*

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*an easy-to-use
tool that can
edit DNA. Known
as CRISPR, it
opened a brave
new world of
medical
miracles and
moral
questions. The
development of
CRISPR and the
race to create*

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vaccines for

Chapter Outlines

coronavirus

will hasten our

transition to

the next great

innovation

revolution. The

past half-

century has

been a digital

age, based on

the microchip,

computer, and

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*internet. Now
we are entering
a life-science
revolution.*

*Children who
study digital
coding will be
joined by those
who study
genetic code.*

*Should we use
our new evoluti
on-hacking*

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*powers to make
us less*

*susceptible to
viruses? What a
wonderful boon
that would be!
And what about
preventing
depression?*

*Hmmm...Should we
allow parents,
if they can
afford it, to*

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*enhance the
height or
muscles or IQ
of their kids?
After helping
to discover
CRISPR, Doudna
became a leader
in wrestling
with these
moral issues
and, with her
collaborator*

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*Emmanuelle
Charpentier,
won the Nobel
Prize in 2020.
Her story is an
“enthralling
detective
story” (Oprah
Daily) that
involves the
most profound
wonders of
nature, from*

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*the origins of
life to the
future of our
species.*

*Studyguide for
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Oxtoby, David
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Antoine

Lavoisier

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approach and
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its rigor. End-

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objectives,

equations and

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making it
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students to
locate chapter
content, while
applications
to a wide
range of
disciplines,
such as
biology,

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chemical
engineering,
biochemistry,
and medicine
deepen
students'
understanding
of the
relevance of
chemistry
beyond the
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how to break
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preparatory
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course, have gone beyond reorganizing the topics. They emphasize the particulate nature of matter throughout the book in the text, art, and problems, while placing the

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chemistry in a biological, environmental, or geological context. The authors use a consistent problem-solving model and provide students with ample opportunities to

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practice.

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Jennifer

***Doudna, Gene
Editing, and the***

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Human Race

Fundamentals

and Analytical

Applications of

Multiway

Calibration

Green

Chemistry and

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from the #1 New
York Times

bestselling author of
All Your Perfects, a
workaholic with a
too-good-to-be-true
romance can ' t stop
thinking about her
first love. Lily hasn ' t
always had it easy,
but that ' s never
stopped her from
working hard for the

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life she wants. She ' s
come a long way
from the small town
where she grew
up—she graduated
from college, moved
to Boston, and
started her own
business. And when
she feels a spark
with a gorgeous
neurosurgeon
named Ryle

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Kincaid, everything in Lily ' s life seems too good to be true.

Ryle is assertive, stubborn, maybe even a little arrogant. He ' s also sensitive, brilliant, and has a total soft spot for Lily. And the way he looks in scrubs certainly doesn ' t hurt. Lily

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can ' t get him out of her head. But Ryle ' s complete aversion to relationships is disturbing. Even as Lily finds herself becoming the exception to his “ no dating ” rule, she can ' t help but wonder what made him that way in the first place. As

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questions about her new relationship overwhelm her, so do thoughts of Atlas Corrigan—her first love and a link to the past she left behind. He was her kindred spirit, her protector. When Atlas suddenly reappears, everything Lily has

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built with Ryle is threatened. An honest, evocative, and tender novel, *It Ends with Us* is “ a glorious and touching read, a forever keeper. The kind of book that gets handed down ” (USA TODAY).

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with particular
attention paid to the
optimization of the
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questions, the book focuses throughout on keeping the material accessible and succinct.

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created a system to help chemists understand how matter behaves. He discovered and named oxygen and hydrogen, and helped set up a system to classify these and other elements. Perhaps his most famous discovery is the role

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oxygen plays in
combustion.

Some Historical

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An Atoms-Focused
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on nanotubes are

then discussed,

as are nano-

porous materials

and metal

organic

frameworks,

nano-gelled

propellants, nano-

composite

ablators and

ceramic nano-

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composites.

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applications

examined include

high thermal

conductivity

metallic nano-

composite nozzle

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propulsion of

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space-crafts, and
highly

thermostable

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with coverage of

combustion of

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rocket fuels,

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and their
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combustion in

micro- and nano-

electromechanica

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and graduate
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of nanomaterials
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industry.

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the use of new

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concepts,

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