

SCIENCE & ENVIRONMENTAL HEALTH NETWORK

2015

ANNUAL REPORT



WWW.SEHN.ORG
@SEHNETWORK
3703 WOODLAND, AMES IA, 50014

WOMAN AND TREE STAND TOGETHER,

A CIRCLE ATOP A SQUARE FRAMING THEM. LIMBS AND ROOTS EXTEND OUT TO THE EDGES, EACH ELEMENT DEFINED BY ITS RELATIONSHIP TO THE WHOLE. LIKE DA VINCI'S VITRUVIAN MAN, OUR LOGO IS A COMPASS FOR OUR WORK. WE KNOW THAT IF A DECISION HARMS THE EARTH IT WILL HARM PEOPLE, AND VICE VERSA. THE OUTCOMES OF DEGRADATION AND EXPLOITATION ARE THE HALLMARKS OF INJUSTICE.

HOW ARE DECISIONS MADE TODAY? WHAT ARE THE CRITERIA, THE CONTEXT? WHO MAKES THEM? WHO BENEFITS? WHO IS HARMED OR LEFT OUT? WHEN DO WE KNOW ENOUGH TO ACT? HOW SHALL WE LIVE TOGETHER ON THIS LAND? WE BELIEVE THAT WHERE WE SET THE FRAME INFLUENCES WHAT GETS CONSIDERED, HOW WE DECIDE TO APPROACH A PROBLEM AND WHAT WE ULTIMATELY DO ABOUT IT. A PICTURE AND ITS FRAME CONTROL THE NARRATIVE. THE CORPORATE WORLD USUALLY SETS A NARROW FRAME, REDUCING "GOOD" DECISION MAKING TO FINANCIAL GAIN AND SHAREHOLDER INTEREST. PEOPLE ARE CONSUMERS, AND THE ENVIRONMENT IS A SWATH OF PIECEMEAL RESOURCES TO BE PARTITIONED AND CONTROLLED. "BREAKTHROUGHS" IN SCIENCE FOCUS ON NEW, TARGETED TECHNOLOGY, RATHER THAN HEALTHY NATURAL SYSTEM SOLUTIONS.



IN THIS 2015 ANNUAL REPORT

WE WANT TO SHARE WITH YOU SEHN'S VISION AND HOW OUR PARADIGM-SHIFTING FRAMES ARE PLAYING OUT IN CONCRETE WAYS NOW.

FOR OVER 20 YEARS, SEHN HAS REFRAMED THE CENTRAL QUESTION OF ENVIRONMENTAL POLICY, FROM "HOW MUCH RISK IS ALLOWABLE?" TO "HOW CAN WE PREVENT MORE HARM, REPAIR DAMAGE DONE, AND BUILD A SAFER, HEALTHIER FUTURE?"



A close-up photograph of a leaf with a prominent vein structure, overlaid with a white rectangular text box. The background is a soft-focus green.

**WE BELIEVE
ENVIRONMENTAL AND
PUBLIC ILL HEALTH IS A
PREVENTABLE HARM; IT
SHOULD NOT BE AN
EXPECTED OUTCOME OF
LIVING TODAY**

“By the ancients humankind has been called the world in miniature; and certainly this name is well bestowed, because, inasmuch as humankind is composed of earth, water, air and fire, his body resembles that of the earth.”

– Leonardo Da Vinci

OUR MISSION

THE SCIENCE & ENVIRONMENTAL HEALTH NETWORK ENGAGES COMMUNITIES AND GOVERNMENTS IN THE EFFECTIVE APPLICATION OF SCIENCE TO PROTECT AND RESTORE PUBLIC AND ECOSYSTEM HEALTH.



OUR THEORY OF CHANGE IS SHIFTING THE CULTURE OF INSTITUTIONS.

WORKING FOR CULTURAL CHANGE IS AN AMBITIOUS BUT VITAL GOAL. SEHN WORKS IN BIG-PICTURE, LONG-RANGE, VISIONARY WORK. SEHN HAS DEVELOPED A STRATEGY AND THEORY OF CHANGE, BASED ON A TWO-PRONGED APPROACH OF (1) INCREASING PUBLIC AWARENESS AND CONVERSATION AND (2) CHANGING DECISION-MAKING.



“To support the work of environmental public health is to bolster the probability of a non-event: The tumor that never metastasized. The baby carried to term. The carefree child on the playground. For over 20 years, prevention has been the work of this remarkable organization.”

- Rebecca Gasior Altman, Board Member

FORMER SEHN STAFF MEMBER NANCY MYERS HAS POINTED OUT THAT, LIKE POPULAR CULTURE OR YOUTH CULTURE, THE CULTURE OF INSTITUTIONS IS NOT TOTALLY ABSTRACT BUT AS HUMAN AS ANY OTHER ASPECT OF CULTURE. IT IS EMBODIED IN INDIVIDUALS AND GROUPS WHO MAKE UP INSTITUTIONS, AND THE LAWS AND NORMS THAT GOVERN THEIR BEHAVIORS.

WE CHANGE THE WAY INSTITUTIONS THINK AND OPERATE:

- BY SETTING AN ECOLOGICAL FRAMEWORK TO HOME IN ON HOW TO CREATE CONDITIONS FOR HEALTH; AND
- BY DEVELOPING AND APPLYING LEGAL PRINCIPLES THAT RECOGNIZE THE RIGHTS OF FUTURE GENERATIONS AND THE RIGHTS OF NATURE, CREATING THE CONDITIONS FOR PROTECTING THE COMMONS.



THROUGH OUR WORK, INSTITUTIONS AND GROUPS LEARN TO PAY PARTICULAR ATTENTION TO WHAT'S GOING ON FARTHER UPSTREAM: WHERE ARE THE MOST EFFECTIVE PLACES TO INTERVENE IN A SYSTEM, AND WHEN? WHO IS WORKING AT THE EDGES AND HOW CAN WE HELP TO REWEAVE THAT PART OF THE WEB?



“Many of my environmental friends argue that we do not have enough time to change laws because the planet is in such peril. It is true that time is short. Yet we need all of our acts of beauty, resistance, and imagination. We need political imagination and we need to intervene in the experiment of government in order to pave a way forward if, through all our tactics, we actually do forestall disaster.”

- Carolyn Raffensperger, Executive Director

**NOTABLE ACHIEVEMENTS
IN 2015**

VISIONARY
SCIENCE, ETHICS,
LAW AND ACTION
IN THE
PUBLIC INTEREST

SOME OF OUR 2015 IMPACTS INCLUDE:

POSTPONING

A UTAH BLM AUCTION OF PUBLIC LANDS FOR OIL AND GAS LEASING AND SPREADING PUBLIC AWARENESS ABOUT FOSSIL FUEL INFRASTRUCTURE THREATS TO UTAH. GOOGLE REPORTED OVER 140 ARTICLES AND NATIONAL COVERAGE OF OUR ACTION



figure 1 Local Utah groups concerned with climate justice gather to protest a BLM auction of public lands for fossil fuel extraction.

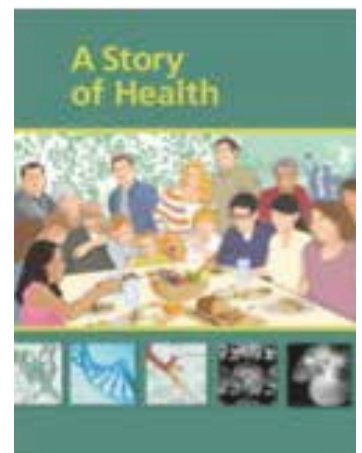
MAKING HISTORY

IN THE U.S., FOR REPRESENTING FOR THE FIRST TIME IN AN EXECUTIVE BRANCH HEARING, FUTURE GENERATIONS. SEHN WAS GRANTED INTERVENOR STATUS TO INTERVENE ON BEHALF OF FUTURE GENERATIONS AT A PIPELINE HEARING IN IOWA.

RECEIVING LOCAL AND NATIONAL RECOGNITION

FOR OUR WORK IN
ECOLOGICAL MEDICINE
AND RIGHTS OF FUTURE GENERATIONS,
THROUGH:

- A STORY OF HEALTH, ON WHICH TED SCHESSLER COLLABORATED, WAS RECOGNIZED BY THE CENTER FOR DISEASE CONTROL WITH THEIR EXCELLENCE IN COMMUNICATION AWARD.
- IN APRIL 2015, THE MINNESOTA WOMEN IN PSYCHOLOGY RECOGNIZED ANN MANNING WITH THEIR INAUGURAL WOMAN WHO MAKE A DIFFERENCE AWARD FOR HER WORK ON THE RIGHTS OF FUTURE GENERATIONS. ANN WAS THE CONVENER OF THE 2ND WOMEN'S CONGRESS FOR FUTURE GENERATIONS AND IS NOW THE ASSOCIATE DIRECTOR OF SEHN.





**THREE PROGRAMS FRAME
OUR WORK IN THE WORLD:**

**PROTECTING FUTURE GENERATIONS,
ECOLOGICAL MEDICINE,**

AND, NEW THIS YEAR,

EXTREME ENERGY.

PROTECTING FUTURE GENERATIONS

LED BY CAROLYN RAFFENSPERGER, THIS PROGRAM DEVELOPS LEGAL PRINCIPLES FOR PROTECTING FUTURE GENERATIONS, AS WELL AS OTHER WAYS TO CARRY OUT OUR RESPONSIBILITIES TO RESTORE AND MAINTAIN A HEALTHY COMMONS, THEN ENGAGES WITH COMMUNITIES TO APPLY THEM.

WE ENGAGE GRASSROOTS AND GOVERNMENTS ALIKE IN:

- BLOCKING HARMFUL PROJECTS THAT ARE THE OUTCOME OF FLAWED DECISION-MAKING
- UNDERSTANDING HOW THESE DECISIONS ARE FLAWED AND
- SHAPING NEW PROCESSES THAT ANIMATE SYSTEM-LEVEL THINKING AND ACTION TO PROTECT PUBLIC HEALTH, FUTURE GENERATIONS, AND THE COMMONS.

CAROLYN'S RECENT WORK IN THIS PROGRAM INCLUDES DEVELOPING AND APPLYING A SET OF LEGAL PRINCIPLES FOR MINING, FRACKING, AND PIPELINES: DEFENDING OUR COMMUNITIES AND FUTURE GENERATIONS, WHICH SERVES AS A BASIS FOR ORGANIZING. BUILDING ON THE TREMENDOUS WORK OF THE 2014 WOMEN'S CONGRESS FOR FUTURE GENERATIONS, CAROLYN ALSO DRAFTED, WITH KAITLIN BUTLER, A WOMEN'S CONGRESS COMPANION FOR POLITICAL CHANGE, BASED ON THESE LEGAL PRINCIPLES. THE INTENT OF THESE MATERIALS IS TO PROVIDE COMMON TALKING POINTS, A COMMON LEGAL AGENDA AND AN ENTRY POINT FOR ORGANIZING.

figure 2 Constituents of the 2014 Women's Congress for Future Generations protesting tar sands in the Midwest, Minneapolis, MN.



WE'RE BRINGING TOGETHER STUDY GROUPS OF COMMITTED COMMUNITY ACTIVISTS TO TEST THE COMPANION FOR POLITICAL CHANGE BEFORE WE PUBLISH IT IN 2016. SEVERAL PRECINCTS IN MINNESOTA ADOPTED A RESOLUTION ENDORSING A STATE LEVEL GUARDIAN OF FUTURE GENERATIONS PUT FORWARD BY THE WOMEN'S CONGRESS FOR FUTURE GENERATIONS. MANY PEOPLE INTRODUCED THE RESOLUTION, SOMETHING THEY HAD NEVER DONE BEFORE, AND NOW THEY ARE EXPLORING HOW TO PROMOTE AND IMPLEMENT THIS RESOLUTION.

WE BUILT A COALITION WITH NATIONAL ALLIES TO STRENGTHEN EFFECTIVENESS OF THE WORK, PROVIDING LEGAL DIRECTION TO COALITIONS WORKING TO BLOCK PIPELINES AND MINES IN STATES AND NATIONALLY, AND ADVISING REGIONAL WORKING GROUPS ON DEVELOPING THEIR OWN ACTIONS.

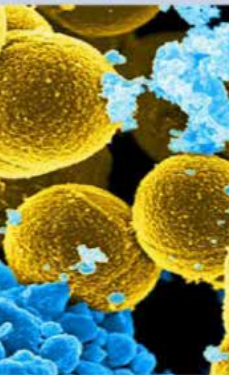
WE HELPED GRASSROOTS CAMPAIGNS MAKE THE CASE FOR THE PUBLIC-TRUST FUNCTION OF GOVERNMENT AND ITS RESPONSIBILITY FOR THE COMMONS AND A REALISTIC ECONOMIC BOTTOM LINE THAT RECOGNIZES THE WEALTH OF THE SHARED COMMONS.



IN OUR MONTHLY NEWSLETTERS AND ESSAYS WE EXPLORED NEW IDEAS IN POLICY AND ACTION TO PROMOTE A HEALTHY FUTURE. WE GAVE A NUMBER OF INTERVIEWS TO THE MEDIA TO PROMOTE THE IDEAS.



Antimicrobials in
Hospital Furnish
Do They Help Re
Healthcare-Asso



ed Schettler MD, MPH
March 2016

ECOLOGICAL MEDICINE

DR. TED SCHETTLER LEADS THIS PROGRAM. TED IS AN AUTHORITY ON THE ENVIRONMENTAL LINKS TO VARIOUS DISEASES, DISORDERS AND PUBLIC HEALTH. AN ECOLOGIC FRAMEWORK RECOGNIZES THE RELATIONSHIPS AMONG CELLS, TISSUES, ORGANS, PEOPLE, FAMILIES, ECOSYSTEMS, SOCIETY AND THE PLANET—BEGINNING IN THE WOMB FOR EACH OF US INDIVIDUALLY, WHILE REACHING MUCH FURTHER BACK INTO THE HISTORY OF FAMILIES, COMMUNITIES AND SOCIETIES. WE LOOK BEYOND SINGLE FACTORS TO SHOW HOW MULTIPLE STRESSORS — INCLUDING POVERTY, RACISM, DIET AND EXPOSURE TO POLLUTANTS— INFLUENCE HEALTH ACROSS THE LIFE CYCLE.

TED'S RECENT WORK IN THIS PROGRAM INCLUDES THE DEVELOPMENT AND APPLICATION OF AN ECOLOGICAL MODEL OF HEALTH - A FRAMEWORK THAT ACCOMMODATES THE DYNAMIC, MULTI-LEVEL COMPLEXITY OF HEALTH. HE APPLIES THIS FRAMEWORK TO OUR FOOD SYSTEM IN HIS PAPER AND WEBINAR PRESENTATIONS ON ENVIRONMENTAL NUTRITION—A PUBLIC HEALTH IMPERATIVE.

IN ADDITION, TED SERVED COMMUNITIES, GOVERNMENT AGENCIES, AND THE HEALTHCARE SYSTEM IN THE FOLLOWING WAYS:

- HE COLLABORATED ON AN E-BOOK, A STORY OF HEALTH, HOUSED AT THE HEALTHY AGING AND THE ENVIRONMENT INITIATIVE AT THE COLLABORATIVE ON HEALTH AND THE ENVIRONMENT (CHE). THE BOOK INCORPORATES THE ECOLOGICAL MODEL -- CHEMICAL, NUTRITIONAL, BUILT AND PSYCHOSOCIAL DETERMINANTS OF HEALTH -- ACROSS A LIFESPAN, ON MULTIPLE LEVELS. SINCE ITS RELEASE, A STORY OF HEALTH HAS RECEIVED 3344 REGISTRATIONS, 4138 WEB DOWNLOADS AND AROUND 4800 YOUTUBE VIEWS.
- HE ADVISED STATES ON IMPLEMENTING CHEMICAL POLICY REFORM LEGISLATION, CUMULATIVE IMPACTS AND ENVIRONMENTAL JUSTICE. HE SERVED ON SCIENCE ADVISORY GROUPS TO TWO NGOS IN ADDITION TO HIS WORK ON CHE AND HEALTH CARE WITHOUT HARM (HCWH).
- TED PROVIDED SCIENCE DIRECTION, RESEARCH, WRITING AND EDITING TO NATIONAL COALITIONS INCLUDING CHE, HCWH, AND SAFER CHEMICALS HEALTHY FAMILIES, AMONG OTHERS.
- HE ASSISTED NUMEROUS COMMUNITY GROUPS AND REGIONAL COALITIONS BY CONSULTING ON PUBLIC AND ENVIRONMENTAL HEALTH.
- IN DOZENS OF INTERVIEWS, TED SERVED AS PUBLIC AND MEDIA SPOKESPERSON ON CURRENT AND POTENTIAL ENVIRONMENTAL HEALTH ISSUES INCLUDING TOXICS IN CONSUMER PRODUCTS; CUMULATIVE IMPACTS OF DIET, SOCIOECONOMIC FACTORS AND ENVIRONMENTAL CHEMICAL EXPOSURES ON HEALTH; AND THE ECOLOGY OF BREAST CANCER.
- HE PLANNED AND TAUGHT ENVIRONMENTAL HEALTH TRAININGS AND CONFERENCES.

“How do we change this more complex whole? To me it means that there’s something here for everyone. Each of us has our gifts, skills, and opportunities. We can look at this complexity and say “what do I do, on the ground, in my community, next week, to try and address this problem.”

– Ted Schettler, Breast Cancer: A Detective Story event



EXTREME ENERGY

WE HAVE ENTERED THE AGE OF EXTREME ENERGY. EVERY REGION FACES THREATS FROM NEW OR REVIVED DESTRUCTIVE TECHNIQUES FOR MINING, DRILLING, PROCESSING, AND TRANSPORTING FOSSIL FUELS. CLIMATE CHANGE AND CLIMATE JUSTICE HAVE RAPIDLY GAINED TRACTION AS UNIFIERS ACROSS SOCIAL JUSTICE MOVEMENTS, AS DIRTY FUEL INFRASTRUCTURE PROJECTS NOW POSE A DIRECT THREAT TO COMMUNITIES IN EVERY CORNER OF THE NATION. THIS PRESENTS AN OPPORTUNITY TO ENGAGE WITH COMMUNITIES THAT OTHERWISE MIGHT NOT PARTICIPATE IN CLIMATE OR ENVIRONMENTAL ORGANIZING.

WE WORK WITH COMMUNITIES TO USE NEW POINTS OF INTERVENTION, EFFECTIVELY PRESSURE DECISION-MAKERS, AND CONSIDER LONGER-TIME HORIZONS AND HOW WE CAN REALIGN THE LAW WITH JUSTICE. COMMUNITIES THAT REJECT DIRTY FUEL FACILITIES AND INFRASTRUCTURE ALSO NEED VIABLE AND JUST ECONOMIC ALTERNATIVES. WE ARE GATHERING THE TOOLS NEEDED FOR MAKING THESE DECISIONS IN A CHANGING WORLD.



figure 3 Tavaputs Plateau, PR Springs UT



figure 4 First US Tar Sands Mine site, PR Springs UT

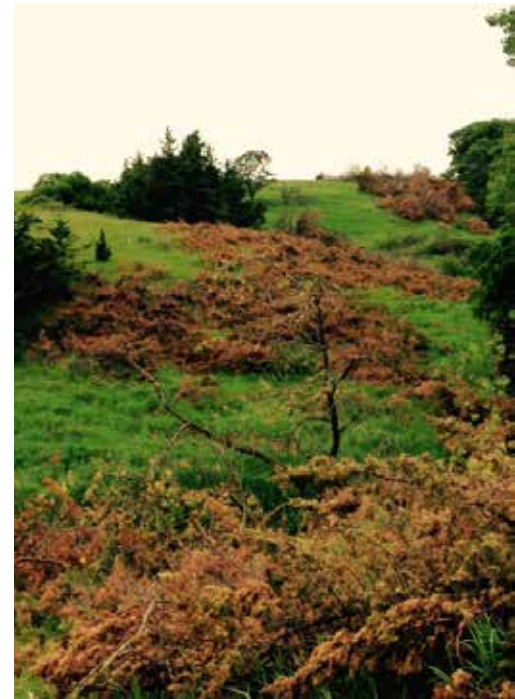
THIS NEW PORTFOLIO OF WORK IS LED BY KAITLIN BUTLER, WHO BEGAN WITH SEHN IN 2015. KAITLIN'S EXPERIENCE IN CLIMATE COMMUNICATION AND COMMUNITY RESILIENCE IS SHAPING THE NEW PORTFOLIO TO EMPLOY SEHN'S CURRENT WORK ON ECOLOGICAL MEDICINE AND LAW, AS WELL AS SEHN'S PREVIOUS WORK ON RESTORATION AND PRINCIPLES OF PERPETUAL CARE.

EXTREME ENERGY ACTIVITIES IN 2015 FOSTERED CROSS-SCALE COALITIONS AND INNOVATIVE LOCAL CAMPAIGNS THROUGH:

- INCREASING ENGAGEMENT WITH THE NATIONAL KEEP IT IN THE GROUND (KING) CAMPAIGN TO STOP EXTREME ENERGY EXTRACTION ON PUBLIC LANDS. KAITLIN WILL CONTINUE TO WORK WITH LOCAL AND NATIONAL GROUPS BY CO-CHAIRING AN OIL SANDS TAR SANDS WORKING GROUP WITHIN THE KING CAMPAIGN TO DEVELOP NEW LEGAL POINTS OF INTERVENTION AROUND EXTREME ENERGY;
- BUILDING RELATIONSHIPS WITH LOCAL GROUPS IN UTAH TO HELP ELEVATE LOCAL ISSUES IN NATIONAL KEEP IT IN THE GROUND INITIATIVES; AND
- WRITING AND PUBLISHING SEVERAL ARTICLES IN PUBLICATIONS WITH LOCAL AND NATIONAL OUTREACH.



figure 5 Deforestation from Bakken Pipeline construction, Iowa



CAROLYN RAFFENSPERGER HAS BEEN COORDINATING A TEAM OF LAWYERS IN IOWA WHO ARE ADVISING OTHER STATES' EFFORTS TO RESIST THE BAKKEN PIPELINE (DAKOTA ACCESS PIPELINE PROJECT, ENBRIDGE INC.). SHE WAS RESPONSIBLE FOR DRAFTING MODEL RESOLUTIONS, REVIEWING EASEMENTS AND CONTRACTS WITH LANDOWNERS AND MORE. ALTHOUGH THE PIPELINE HAS BEEN APPROVED, THERE WILL BE MORE MEETINGS WITH DECISION-MAKERS AND MORE DOCUMENTS TO REVIEW. IN ADDITION TO THE DEVELOPMENT AND APPLICATION OF LEGAL PRINCIPLES AROUND THIS WORK, CAROLYN ALSO LED THE DRAFTING AND STRATEGIZING AROUND:

- THE FULL LIST OF DEMANDS SUBMITTED BY A GROUP OF MIDWESTERN COALITIONS TO THE NORTH DAKOTA PUBLIC SERVICE COMMISSION, THE SOUTH DAKOTA PUBLIC UTILITY COMMISSION, THE IOWA UTILITIES BOARD, AND THE ILLINOIS COMMERCE COMMISSION;
- A FACT SHEET PREPARED FOR THE STORY COUNTY (IA) COMMUNITY MEETING OF THE BAKKEN PIPELINE RESISTANCE. THE DOCUMENT SERVES AS A FACT SHEET FOR HOW TO IDENTIFY PLACES FOR INTERVENTION OR POINTS FOR ENGAGEMENT AROUND THESE PROJECTS.



figure 6



figure 7



figure 8



figure 9

6. Carolyn Raffensperger speaking at Iowa Department of Natural Resources Public Hearing on Bakken Pipeline

7. Ted Schettler and Carolyn holding conversation on Breast Cancer: A Detective Story -- exploring ecological medicine, women, and activism Minneapolis, MN,

8. Kaitlin Butler and Elders Rising co-founder, Vaughn Lovejoy, interviewed on Radio Active, Salt Lake City, UT discussing fossil fuel leasing auctions of public land

9. Sherri Seidmon sharing SEHN publications at 'Breast Cancer, A Detective Story' event, Minneapolis, MN



figure 10

10. Ann Manning introducing Ted and Carolyn at Breast Cancer event.

CROSSCUTTING THEME

ENGAGEMENT



THE WORK WE DO IS NOT OURS ALONE BUT CARRIED OUT IN COLLABORATIONS OF NGOS, PROFESSIONAL GROUPS, ACADEMIA, SCIENTISTS, BUSINESS GROUPS, AND ALL LEVELS OF GOVERNMENT. OUR COLLEAGUES IN THESE INSTITUTIONS ARE EMBRACING THE ETHIC, METHODS, AND VISION OF NEW APPROACHES TO LAW AND POLICY THAT ARE PREDICATED ON LEAVING HEALTH AND WELLBEING TO FUTURE GENERATIONS. WE CONTINUE TO SERVE AS DOCTOR-LAWYER- RESEARCHERS- WITNESSES-ON-CALL TO THE ENVIRONMENTAL HEALTH MOVEMENT.

IN 2015, WE PROVIDED CONSULTATION, REVIEW AND COMMENT ON ACADEMIC AND LEGAL DOCUMENTS. WE HELPED PEOPLE LINK THE TRENDS AND PATTERNS THEY WITNESS WITH TOOLS THAT PROMOTE HEALTHY, JUST DECISIONS OVER UNETHICAL ONES. WE PARTNERED WITH NETWORKS, COALITIONS, COMMUNITY ORGANIZATIONS, THE MEDIA, PUBLIC HEALTH PRACTITIONERS AND OTHERS. OUR WORK IS IN SERVICE TO THESE EXCHANGES.

IN 2015, BUILT UPON THE ETHICAL FOUNDATION OF PRECAUTION, SEHN:

- ASSISTED COMMUNITIES WITH IMPLEMENTING THEIR OWN POLICIES THROUGH CONSULTATION AND WORKSHOPS, EXTENSIVE PUBLIC SPEAKING AND MEDIA CONVERSATIONS ON FREE, PRIOR AND INFORMED CONSENT; CHEMICALS POLICY; GUARDIANSHIP OF FUTURE GENERATIONS; THE PRECAUTIONARY PRINCIPLE AND LEGAL PRINCIPALS AND METHODS FOR AN ECOLOGICAL AGE.
- HAMMERED OUT WAYS IN CURRENT LAW TO ACCOUNT FOR CUMULATIVE IMPACTS AND ENVIRONMENTAL JUSTICE, TO HELP COMMUNITIES STOP HARMFUL PROJECTS AND IDENTIFY AND CHOOSE ENVIRONMENTAL MORE SOUND ALTERNATIVES.
- ENCOURAGED THE PRACTICE OF PUBLIC INTEREST SCIENCE AND THE ACCURATE INTERPRETATION OF SCIENTIFIC INFORMATION IN PUBLIC POLICY.
- BUILT THE FRAMEWORK FOR LEGAL, POLITICAL AND CULTURAL ACTION TO PROTECT FUTURE GENERATIONS FROM ENVIRONMENTAL HARM.
- FURTHER DEVELOPED AND PROMOTED AN ECOLOGICAL MODEL OF HEALTH WHICH HELPS US TO 1) BETTER UNDERSTAND THE SYSTEMIC ORIGINS OF MANY COMMON DISEASES AND ENVIRONMENTAL HEALTH PROBLEMS 2) IDENTIFY STRATEGIC OPPORTUNITIES TO INTERVENE, CHANGING THE DYNAMICS OF THE SYSTEM.



OUR PROGRAMS ARE TIGHTLY INTERWOVEN. FOR EXAMPLE, ON OCTOBER 21, CAROLYN RAFFENSPERGER AND TED SCETTLE SPOKE TO A CROWD OF 50+ PEOPLE IN ST. PAUL ON BREAST CANCER, SCIENTIFIC UNCERTAINTY, AND THE RISE OF WOMEN'S ACTIVISM. THE ECOLOGY OF BREAST CANCER, WRITTEN BY DR. SCETTLE, IS A BOOK EXPLORING THE ORIGINS OF BREAST CANCER AND IMPROVEMENTS IN TREATMENT OUTCOMES USING SEHN'S ECOLOGICAL FRAMEWORK OF HEALTH AND DISEASE.

THE EVENING ENDED IN A DISCUSSION OF WENDELL BERRY'S IDEA THAT "HEALTH IS WHOLENESS," AND THAT OUR MEMBERSHIP IN A PARTICULAR COMMUNITY IS A KEY DETERMINANT OF OUR HEALTH. CONVERSATIONS LIKE THESE ARE JUST THE BEGINNING OF OUR WORK TO INTEGRATE ACTION ON CLIMATE CHANGE, THE TRANSITION AWAY FROM FOSSIL FUELS, AND CREATING HEALTHY, TOXIC-FREE COMMUNITIES ALL OVER THIS COUNTRY.

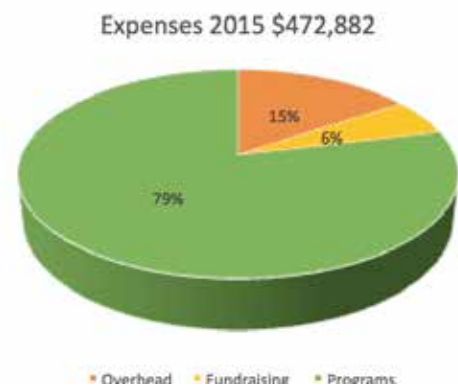
THE IDEAS WE HAVE DEVELOPED JUST IN THE PAST FEW YEARS — AN ECOLOGICAL MODEL OF HEALTH AND RIGHTS FOR FUTURE GENERATIONS—ARE NOW BEING EXPLAINED COHERENTLY IN THE MEDIA, USED BY COMMUNITY AND ACTIVIST GROUPS, AND MOVING INTO PUBLIC POLICY. UNIVERSITIES ARE TEACHING THESE IDEAS AND THE NATIONAL RESEARCH AGENDA IS SHIFTING TO INCORPORATE THIS THINKING. COLLEAGUES—FROM GRASSROOTS INDIGENOUS GROUPS TO ASSOCIATIONS OF FUNDERS— RESPOND ENTHUSIASTICALLY AND WANT TO GET INVOLVED AND DO MORE. THE DEMAND FOR SEHN'S WORK CONTINUES TO GROW.

*“SEHN has a great blend
of the radical and the
practical. SEHN has it all
– from the big ideas down
to ‘let’s make it happen.’”*

– Peter Montague, Board
Member



FINANCIALS 2015



AS A 501 (C)(3) WE DEPEND ON PUBLIC SUPPORT AND DONATIONS TO CARRY OUT OUR WORK. SEHN CREATES A BIG IMPACT AS A VIRTUAL ORGANIZATION, WORKING WITH COMMUNITIES AND COALITIONS THROUGH THE EXCHANGE OF NEW IDEAS AND POINTS OF INTERVENTION RATHER THAN CURRENCY. DONATIONS ARE ACCEPTED AT OUR WEBSITE WWW.SEHN.ORG, OR MAILED TO: SEHN, PO BOX 50733, EUGENE, OR 97405. FEEL FREE TO CONTACT US IF YOU WOULD LIKE TO DONATE STOCK OR SEND A GIFT IN SOMEONE'S HONOR OR MEMORY. WE ARE GRATEFUL TO OUR COMMUNITY OF SUPPORTERS, FOUNDATIONS AND FELLOW COLLABORATORS.

FOUNDATION GRANTS:

COMMONWEAL

ENVIRONMENTAL RESEARCH FOUNDATION

FOUNDATION FOR THE CAROLINAS

HEALTH CARE WITHOUT HARM

MARISLA FOUNDATION

MINNEAPOLIS FOUNDATION

TIDES FOUNDATION

ANONYMOUS

PUBLICATIONS

SEHN's newsletter, the Networker, had consistently higher open rates compared to the non-profit industry average. The Women's Congress newsletters had open rates nearly double the non-profit industry average, at 40% compared to 23%. In social media, our Facebook posts reached as many as 3,000 people last year, with our organic post-reach averaging 200+. While we intend to improve our social media outreach through other avenues like Twitter, a minimal increase in Twitter presence led to a 13% increase in followers.

Raffensperger, C., Butler, K., and Seidmon, S., editors, The Networker, SEHN electronic newsletter www.sehn.org/thenet

- "Reconnecting Medicine with public environmental health: An Ecologic Framework." Volume 20 (1) January 2015.
- "The Transformative Power of Story-Telling in Law, Science and Organizing." Volume 20 (2) February 2015.
- "What's in the Pipeline: Common Cause and Joint Action, Not Oil." Volume 20 (3) March, 2015.
- "The Long, Twisting Tale of Chemical Policy." Volume 20 (4) April, 2015.
- "Civic Innovation: Realigning the Law With Justice." Volume 20 (5) May, 2015.
- "Spring Fund Appeal." Volume 20 (6) June, 2015.
- "Summer at SEHN" Volume 20 (7) Summer 2015.
- "Changing the Rules of the Game: SEHN's Strategic Engagement with grassroots groups." Volume 20 (8) September, 2015.
- "Grassroots Organizing: The Roads Home." Volume 20 (9) November, 2015.
- "Standing with Future Generations-Join Us!" Volume 20 (10) December, 2015.
- "Give the Gift of Health." Volume 20 (11) December, 2015.

Raffensperger, C., Butler, K. "The New Eco-Feminism. Fulfilling our sacred responsibilities to future generations. On the Commons Magazine. August 7, 2015.

Raffensperger, C. Butler, K. "It's Time to Take Back the Law. 8 legal principles that give the Earth and future generations a chance." On the Commons Magazine, September 16, 2015.

Raffensperger, C., Butler, K., and Seidmon, S., editors, Science & Environmental Health Network Blog, www.sehn.org/blog.

- "Our Island Home, A Sailor's Perspective." January 5, 2015. Raffensperger, J.
- "Cancer, Stem Cells, and Bad Luck." January 6, 2015. Schettler.

- “Individual Health-Public Health: The North Karelia Project.” January 12, 2015. Schettler.
- “An Integrative, Ecologic Approach to Alzheimer’s Disease.” January 12, 2015. Schettler.
- “New: A Story of Health Illustrated Multimedia eBook.” January 26, 2015. Schettler.
- “At the Threshold of a Dark Wood: to the activist who needs a game changer.” February 25, 2015. Raffensperger.
- “New Updates for A Story of Health, Multi-media E-book.” February, 25, 2015. Schettler.
- “What’s in the Pipeline: Common Cause and Joint Action, Not Oil.” April 2, 2015. Butler.
- “Safer Chemicals, Safer Products: Is Congress Up to Their Task? April 27, 2015. Schettler.
- “How to Unleash Chemical- Policy Reform (And Every Other Progressive Reform).” Montague.
- “Legal Principles for Mining, Fracking and Pipelines: Defending our Communities and Future Generations.” May 11, 2015. Raffensperger.
- “Walking the Property Line: Eminent domain and the U.S, oil and gas rush.” May 11, 2015. Butler.
- “Using Legal Principles in your organizing.” May 19, 2015. Butler
- “Why Legal Principles are Important in Organizing around Mining, Fracking and Pipelines.” May 19, 2015. Butler.
- “Civic Innovation: Realigning the Law with Justice.” May 20, 2015. Raffensperger.
- “Preparing the Harvest: An update on the work of the Women’s Congress.” July 20, 2015. Butler.
- “Deny the Bakken Pipeline.” July 28, 2015. Raffensperger.
- “New-Kaitlin and Carolyn’s “The New Eco-Feminism” article in On The Commons Magazine.” August 10, 2015. Butler
- “County Board of Supervisors Are Key-Decision Makers in the Dakota Access Pipeline Matter.” September 10, 2015. Raffensperger.
- “Utah is Ground Zero for the Fight over Unconventional Energy Development.” September 10, 2015. Butler.
- “Can a Cow Virus Increase the Risk of Cancer?” September 25, 2015. Schettler.
- “Breast Cancer Prevention Begins in the Womb.” November 2, 2015. Schettler.
- “Iowa’s Heart in the Fight to Protect the Land: A Conversation with Angie Carter.” November 10, 2015. Butler.
- “Making History-SEHN Intervening in the Bakken Pipeline on behalf of Future Generations.” November 10, 2015. Butler.
- “Mind the (COP21) Gap: Introducing Climate Countdown –a webseries on the path to Paris.” November 12, 2015. Butler.
- “Give the Gift of Health.” Raffensperger. December, 2015.

- Schettler, T. Cancer, stem cells, and bad luck. CHE and SEHN blog. January, 2015.
- Schettler, T. Breast Cancer Prevention Begins in the Womb. SEHN & CHE blogs. October, 2015.
- Butler, K. “Utah’s Hope for Oil Shale Bonanza has a Public Relations Problem, Industry Symposium Hears.” DeSmog Blog. October 25, 2015.

PRESENTATIONS

January 21, 2015, Schettler---A Rationale for Safer Building Materials. Webinar presentation for Green and Healthy Homes Initiative.

January 22, 2015, Schettler---A Story of Health: Childhood Leukemia. CHE partner call.

February 12, 2015, Schettler---The Primary Prevention of Asthma. Webinar presentation to US EPA staff from air division.

February 19, 2015, Schettler---A Rationale for Safer Building Materials. Presentation at Healthcare 2030 symposium. San Francisco, CA.

March 12, 2015, Schettler---Story of Health: Asthma. Webinar presentation for Collaborative on Health and the Environment.

March 18, 2015, Schettler---Environmental Nutrition: A Public Health Imperative. Webinar presentation for Health Care Without Harm.

March 25, 2015, Schettler---The Ecology of Breast Cancer (with an emphasis on diet, nutrition, and breast cancer in an ecologic framework). Webinar presentation sponsored by the Hunger and Environmental Nutrition and Oncology Nutrition practice groups of the Academy of Nutrition and Dietetics.

March 27, 2015, Schettler---The Ecology of Breast Cancer. Presentation at BCA Fundraiser. Portola Valley, CA.

April 1, 2015, Schettler---The Ecology of Breast Cancer. Presentation to firefighter’s research project team. Commonweal. Bolinas, CA.

April 2, 2015, Schettler---Story of Health; introduction to leukemia chapter. OEHHA presentation. Oakland, CA.

May 12, 2015, Schettler---Environmental Nutrition. CleanMed. Portland, OR.

May 13, 2015, Schettler---Asthmagens in health care. CleanMed, Portland, OR.

May 14, 2015, Schettler---Antimicrobials in health care furnishings. CleanMed. Portland, OR.

May 21, 2015, Raffensperger---Visioning to the Seventh Generation: Implications of Future Minded Thinking and Practice. Presentation with Tom Goldtooth of Indigenous Environmental Network.

May 22, 2015, Schettler---Primary prevention of asthma. Podcast for US EPA.

May 26, 2015, Raffensperger---Law, Policy and Ethics. Presentation at the College of Law at Arizona State University's Third Annual Conference on Governance of Emerging Technologies. Phoenix, Arizona. June 5, 2015, Schettler---Prevention of breast cancer as a public health goal. Presentation to CA Breast Cancer Research Program Council. Oakland, CA.

June 14, 2015, Schettler---Environmental Nutrition. Webinar presentation to health care systems and NGO's in Michigan.

August 4, 2015, Schettler---Environmental Nutrition. Farm Fresh Healthcare Forum. Sacramento, CA.

October 21, 2015, Raffensperger and Schettler---Breast Cancer, Scientific Uncertainty, and the Rise of Women Activism: A Detective Story. Minneapolis, MN.

October 28, 2015, Schettler---A Story of Health. Webinar Presentation for the American Planning Association.

October 31, 2015, Butler---Women's Congress for Future Generations. Radio Interview on 7 Generations Radio. WHSC Radio.

November 5, 2015, Raffensperger---Presentation at Fairfield Public Library about Bakken Pipeline.

November 12, 2015, Butler---Origins and Principles of the Women's Congress for Future Generations. Radio interview on 7 Generations Radio by Joe Grey.

November 12, 2015, Schettler---An Ecologic Model of Health: Health and Spirituality. Seminar presentation and discussion. Pacific School of Religion. Berkeley, CA.

December 11, 2015, Schettler---Ecologic Models of Health. CHE teleconference call presentation.

SOCIAL MEDIA CONTACTS

Leigh Ann Winick. CBS National News. Questions about BPS as an alternative to BPA. January, 2015.

Rebecca Nutthall. Pittsburgh City Paper. Correspondence regarding risks associated with exposure to a cleaning agent in hospitals. February, 2015.

Sasha Harris. Freelance journalist. Interview about safety of using waste water as a source for drinking water.

Ginny Graves. Health Magazine. Interview about health effects of chemicals in consumer products and other sources, with particular attention to reproductive health. June, 2015.

Sharon Lerner. The Intercept. Interview about glyphosate, endocrine disruption, EDSTP at EPA.

Raffensperger media contacts

Ken Rose. Radio Interview. Future Generations, Precautionary Principle, Theory of Government. <http://www.pantedmonkey.org> February 4, 2013.

Peter Werbe. Radio interview WRIF. July 21, 2013. Interview about how current laws regarding

ecology, written decades ago, are inadequate for a globalized economy, and suggested a new framework based on the Precautionary Principle.

LaDonna Redmond. Radio interview 89.9 fm KMOJ. Guest speaker on cumulative impacts and the precautionary principle for the program "It's Your Health." Minneapolis, MN.

CONSULTATIONS

February, 2011- Ongoing. Raffensperger. Created the Cumulative Impacts Working Group in partnership with the Collaborative on Health and the Environment (CHE). Co-chair working group with Elise Miller. They each facilitate every other call.

2011-Ongoing. Raffensperger. Advisory committee member creating a Healthy Iowa Children's Coalition. On-going, Raffensperger. Board member and advisor to the Product Policy Institute, and the Center for Regenerative Society.

On-going, Raffensperger. Senior advisor to Women's Earth Alliance, North America project on Indigenous Women and the law.

On-going, Raffensperger. Adjunct professor at Marygrove College in Detroit, MI. Teaching environmental law and policy courses in the Social Justice Masters Program.

On-going, Raffensperger. SEHN has joined a coalition of 22 groups in Iowa to stop Bakken oil pipeline. Carolyn Raffensperger is on the media and legal team. Board member Angie Carter is helping to lead the coalition.

On-going, Schettler. Science Director of CHE. Regularly scans new scientific information and posts to multiple CHE listservs.

Completed term: Schettler. Member of the Advisory council of the California Breast Cancer Research Program.

On-going, Schettler. Science advisor to Health Care Without Harm.

SEHN IN THE NEWS

January 8, 2015. "Activists say pipeline meeting notices were deficient." Article in Des Moines Register by William Petroski. SEHN part of group that filed the motion with the IA Utilities Board.

January 27, 2015. "Local group forms to oppose Bakken Pipeline." Article in Fairfield Ledger.

February 4, 2015. "World Cancer Day: Address Primary Prevention as it Should." Article in Paris France mentions the Ecology of Breast Cancer book by Ted Schettler.

February 5, 2015. "Dollar Stores found Selling Toys, Earrings and More, Containing Lead and Other Toxins." Article by Amanda Frank in Center for Effective Government. Ted Schettler was a reviewer for the published paper.

February 15, 2015. "Story of Health." NIEHS Newsletter from Partnerships for Environmental Public Health. Volume 6 Issue 2. Includes links to The Story of Health ebook.

March 1, 2015. "Scientific contestations over toxic trespass: health and regulatory implications of chemical biomonitoring," by Bhavna Shamasunder, SEHN Board Member. Journal of Environmental Studies and Sciences. <http://goo.gl/dpYPPt>

March 11, 2015. "American Petro-topia" by Rebecca Gasior Altman, SEHN Board Member. Aeon Magazine <http://goo.gl/2Sn6GU>

March, 2015. "Whatever Works: Legal tactics and Scientific Evidence in Environmental Justice Cases," by Madeleine Kangsen Scammell, SEHN Board Member. Environmental Justice Vol. 8, No. 1 (2015), pgs. 20-25. <http://goo.gl/EWj2Cb>

May 23, 2015. "Public Interest in Pipeline Seems Slippery." Article by Rekha Basu in the Des Moines Register. Report prepared by Carolyn about the analysis of the pipeline company's annual report quoted in article.

August 21, 2015. "GMO's: The Evolution of Emerging Technologies." Article in Huff Post Green by Melody Meyer. Quotes the precautionary principle as stated by SEHN.

November 2, 2015. Board member Tom Goldtooth was awarded the Gandhi Peace Prize for the Indigenous Environmental Network's contribution to world peace.

November 4, 2015. "No Bakken Presents Speaker." Carolyn Raffensperger presentation.

November 5, 2015. "Group meets to discuss Bakken Pipeline." Article by Nicole Hester-Williams in the Fairfield Ledger quotes Carolyn.

November 6, 2015. The Bakken Pipeline Resistance Coalition was named one of Credo's 63 Climate Heroes, selected for outstanding small group activism to stop fossil fuel development and defend clean energy.

December 17, 2015. "Ann Manning: Changemaker: Organized a national Women's Congress for Future Generations advocating for environmental change and economic justice. Award presented to Ann Manning. Minnesota Women's Press. Article by Norma Smith Olson.

December 17, 2015. "Pipeline Opponent Critical of Iowa Hearing Format." Washington Times. Article with Carolyn's picture and participation.

December 29, 2015. "Sander's Grassroot Campaign Talks on Energy in Boone." Article by Matthew deWitt in Ames Tribune. Carolyn and Ahna from Pipeline Resistance rally support.