

# WRMU Issues/Programs List

Alliance, Ohio 44601

July 1, 2022

## Issue: Public Affairs Issues

### **Discussion of the Issue:**

Many area residents do not have a radio outlet for national and international events and issues. WRMU provides programming for people who may be interested in these issues. WRMU believes the community should be aware of world issues that are not covered in the local media.

### **Programming:**

- A. The Media project – Thursdays @ 5:30 p.m.- 30-minute weekly program discussing issues in the media. (See program and issues list below)
- B. Music and the Spoken Word Sundays at 8:30am - 30-minute weekly program the offers music and religious commentary.
- C. Earthwise- Mondays at 830am and Wednesdays at 12:30pm- 2-minute segment that looks at our changing environment - from green business and new environmental legislation to how nature impacts our environment in ways never before considered. (See program and issues list below)
- D. Academic Minute-Tuesdays at 12:30pm and Thursdays at 830am-2:30 segment. Discusses the latest in academic research from colleges and universities around the world (See program and issues list below)
- E. Climate Connections-Mondays and Fridays at 12:30pm 1 minute segment highlights the importance of water stewardship and sustainability in the Great Lakes and surrounding watersheds. (See program and issues list below)
- F. Strange Universe-Wednesdays at 830am and Thursdays at 12:30pm-2:30 segment that sheds light on the mysteries of space and time.(See program and issues list below)

## Issue: Various issues of Public Concern

### **Discussion of the Issue:**

There are many issues effecting society and through public service announcements WRMU can inform the public about these issues. WRMU provides an outlet for these local announcements that benefit the community.

### **Programming:**

WRMU airs two pre-recorded PSAs per hour on relevant issues to the public. For example: diabetes, Habitat for Humanity, high school drop out rates, energy efficiency, safe driving. (See list of recorded PSA's below)

Title	Artist(s)	Run Time
Hunger: Olivia	Hunger Prevention	01:00
UMU - Mom's Point of View	Mount Union	01:00
Wireless Alerts	Emergency Preparedness	01:00
Jackie High School Equivalency	High School Equivalency	01:00
One Soil to Live - Thank You, Doctor	USDA	01:00

Smokey 75 - Jeff Foxworthy	US Forest Service	01:00
Facts Matter	Vote Smart	01:00
Food Angels (Alliance Specific) (1 Min	Hunger Prevention	01:01
Whatever Gets You Talking	Suicide Prevention	01:00
Shoes - Childhood Obesity	earthshare.org	01:00
Adult Immunization	NFID	01:00
Karim-High School Equivalency	High School Equivalency	01:00
Missed Opportunity	Pathways to Employment	01:00
Alcohol-Free Party (UMU)	UMU ADWE	00:43
Sarcoma Awareness	SFA	01:00
Collegiate Week: Anxiety	WRMU	01:18
Expensive Night	Buzzed Driving Prevention	01:00
Having a Stroke (1 Minute)	Stroke Prevention	01:00
Healthy Steams = Healthy Communities	Izaak Walton League of America	01:00
Steve's Story - Organ Donation	organdonor.gov	01:00
Moments	Fatherhood Involvement	01:00
Dad Jokes	U.S. Department of Health and Human Servi...	01:01
E-Cigs (UMU)	UMU ADWE	00:45
Online Bullying	CAP	01:00
Collegiate Week: Suicide	WRMU	01:06
Only in the Forest	Discovering Nature	01:00
Dumpster Emergency Preparedness	Emergency Preparedness	01:00
How We Do It	Job Training & Employment	01:00
Attention Men-Buzzed Driving	Buzzed Driving Prevention	01:00
Unused Opioids	FDA	01:00
Chris's Story - Organ Donation	organdonor.gov	01:01
Julius Randle Reverse (Diabetes)	Diabetes Prevention	01:00
Buzzkill	Office of Alcohol, Drug, and Wellness Educa...	01:00
Alcohol Poisoning (UMU)	UMU ADWE	00:54
Bucke Up (Teen Girl) (1 Minute)	Seatbelt Safety	01:00
Save Newborns Now	Project HOPE	01:00
Orphan Diaries - Kin's Story	Food for Orphans	01:01
Social Security Online	Social Security Administration	01:00
Ruth's Stroke Story - Stroke Prevention	NIH.gov	01:00
A Caregiver's Story	Coalition to Salute America's Heroes	01:01
Collegiate Week: Depression	WRMU	01:10
The Good In You - Organ Donation	organdonor.gov	01:01
Drunk Driving (UMU)	UMU ADWE	00:42
Chance Pathways to Employment	Pathways to Employment	01:00
'Better than Ed' - Population Growth	Center for Biological Diversity	01:00
Roxanne's Mission - Organ Donation	organdonor.gov	01:00
Soil: The Final Frontier	USDA	01:00
LGBT Acceptance	AD Council	01:01
Taylor's Story – The consequences of Alcohol	Youth 2 Youth International	01:01
Probably	Buzzed Driving Prevention	00:59
Collegiate Week: Resiliency	WRMU	01:24
All-Nighter Rx Abuse (UMU)	UMU ADWE	00:56
Supporting the Heroes Who Inspire Us All v2	Coalition to Salute America's Heroes	01:01
Emergency Prep (1 Minute)	Emergency Preparedness	01:00
STEM: Moment of Discovery	STEM	01:01
Shingles - Adult Vaccination	NFID	01:00
Lyndsey's Story – Alcohol and Date Rape	Youth 2 Youth International	01:00
Help Heal A Veteran	Help Heal Veterans	01:00
Power Suit	Job Training & Employment	01:00
Babbling	Autism Speaks	01:00
Orphan Diaries - 143 Million	Food for Orphans	01:00
Overprescribing	planagainstpain.com	01:00
Pot on Campus (UMU)	UMU ADWE	00:55
Buzzed Drinking is Drunk Driving (1 Mi	Buzzed Driving Prevention	01:01
Supporting the Heroes Who Inspire Us All	Coalition to Salute America's Heroes	01:00
Anchor It!	CPSC	01:00

2 Sides	Learning Attention	01:00
Full Circle	Caregiver Assistance	01:00
Where We Operate	Doctors Without Borders	01:01
Zzzapper – Alcohol Industry targeting teens	Youth 2 Youth International	01:00
Collegiate Week: Positive Mental Health	WRMU	01:21
Rising Ashes-Fire Pit	Wildfire Prevention	01:00
Opioid Addiction Prevention	CDC	01:25
Lung Cancer: Save Your Life	Lung Cancer	00:30
TEEN STRESS – NICOLAS CAGE	Will Rogers Institute	00:30
Post Your Recovery	SAMHSA	00:30
STEM: Recycling	STEM	00:32
Kiddie Music	NHTSA	00:30
Suicide Prevention: Amine	Suicide Prevention	00:30
Home From Work	NFID	00:32
COPD - Pulmonary Rehab	American Thoracic Society	00:30
Aislinn Derbez: Always Spay or Neuter	PETA	00:30
Adoption From Foster Care - Never Completely	Adopt US Kids	00:32
CHOLESTEROL – GERALD MCRANEY	Will Rogers Institute	00:30
Rockstar	National Responsible Fatherhood Clearingho...	00:30
All of Us Research Program	National Institutes of Health	00:30
Kiddie Car Seat Song	NHTSA	00:32
Driving Means	Texting Prevention	00:30
House Ace	Retirement	00:32
TCO: Quick Fixes	Take Charge Ohio	00:32
Cold Dog	PETA	00:30
Play Ball	USDA	00:32
ASTHMA – BRYAN CRANSTON	Will Rogers Institute	00:30
Forklift	National Responsible Fatherhood Clearingho...	00:30
VITA/TCE	IRS	00:32
Alzheimer's - Cynthia	Alzheimer's Association	00:32
Suicide Prevention: Lindsay	Suicide Prevention	00:30
We Need A Break	NHTSA	00:30
Online Identity Theft	APWG/NCSA/DHS	00:30
Sedrick Ellis: Disaster Preparedness for Animals	PETA	00:30
Mom Visit	NFID	00:32
Tune Out	Seatbelt Safety	00:30
Child Healthcare	CHIP	00:30
AMVETS Service Officers 2	AMVETS	00:30
SS Phone Scam	Social Security Administration	00:32
Computer Security With Taxes	IRS	00:32
Sour Note	NHTSA	00:32
HIGH BLOOD PRESSURE – BETTY WHITE	Will Rogers Institute	00:30
Flystrike	PETA	00:30
Skills From HAM	ARRL	00:34
Caring For Elders - Hero	AARP	00:32
Shelter Pet Adoption - Olivia Munn	Maddie's Fund	00:30
Join AMVETS	AMVETS	00:32
Treat Your Phone Like A Computer	Stop Think Connect	00:30
Smokey 75 - Betty White	US Forest Service	00:30
Suicide Prevention - Lindsey Stirling	AFSP	00:32
Protect Your Baby	CDC	00:32
Dogs on Hot Pavement	PETA	00:30
Tween Band	NHTSA	00:30
Joe Wash - ARRL	ARRL	00:30
Tax Transcripts	IRS	00:32
Flu Vaccine	NFID	00:32
Bullying Prevention - Jumanji	Sony Pictures	00:32
JJ Harrison - 811	Pipeline Operators for AG Safety	00:30
Saving For Retirement - Girlfriend	AARP	00:32
Lung Cancer: Next Step	Lung Cancer	00:30
Prediabetes - People You Know	AMA; CDC	00:32

Buzzed Play-By-Play	NHTSA	00:30
Driving Blind	Texting and Driving Prevention	00:30
Tax Filing Extension	IRS	00:32
UMU - Tailored Experience	Mount Union	00:30
Online Security	APWG/NCSA/DHS	00:30
Pest Allergies	PestWorld.org	00:30
Saving For Retirement - Daughter	AARP	00:32
Protect Your Animals During Fireworks	PETA	00:30
TCO: Mission	Take Charge Ohio	00:32
I Love My Kid	NHTSA	00:32
Joe Walsh - HAM Radio	ARRL	00:30
EITC Tool	IRS	00:32
Social Security Phone Scam	Social Security Administration	00:32
Red Cross Blood Donation Alert	American Red Cross	00:30
Let's Take a Break	Texting and Driving Prevention	00:30
Suicide Prevention (UMU)	UMU ADWE	00:40
Grant Aleksander: Dogs in Hot Cars	PETA	00:30
TCO: Harmless Sharing	Take Charge Ohio	00:33
Night Shift	NHTSA	00:30
Building Recovery	SAMHSA	00:30
Tax Payment Options	IRS	00:30
HBP Loving Reminder	High Blood Pressure Control	00:30
Our Roads, Our Safety Campaign- "Meet Keith"	U.S. Department of Transportation	00:30
Baby Decisions	CDC	00:32
Asthma - Know Your Count	AAFA	00:30
AMVETS VAVS	AMVETS	00:32
Covid-Social Distancing	Covid-Social Distancing	00:30
TCO: Managing Pain Properly	Take Charge Ohio	00:32
Suicide Prevention - Hayley Kiyoko	AFSP	00:32
High List	NHTSA	00:30
Eve: Unchain Your Friends	PETA	00:30
Our Roads, Our Safety Campaign- "Meet Ed"	U.S. Department of Transportation	00:30
Game Over - Playing Online	APWG/NCSA/DHS	00:30
Volunteer for VITA/TCE	IRS	00:32
Pulmonary Health Education and Research	Will Rogers Institute	00:30
Kelsey Grammer - Wounded Warrior	Wounded Warrior Project	00:30
TCO: Talk To Your Doctor	Take Charge Ohio	00:32
Stow Your Phone	Texting and Driving Prevention	00:30
Covid: Wash Hands	Covid	00:30
Tuba Practice	NHTSA	00:32
Dogs In Hot Weather	PETA	00:30
Imagine	LGBT Acceptance	00:30
Smokey 75 - Stephen Colbert	US Forest Service	00:32
Common Tax Errors	IRS	00:32
Retirement Online	Social Security Administration	00:32
TCO: Safe Storage & Disposal Tips	Take Charge Ohio	00:32
Rx Abuse (UMU)	UMU ADWE	00:30
Suicide Prevention - Amine	AFSP	00:22
Saving For Retirement - Husband	AARP	00:30
Drunk Love	NHTSA	00:30
Covid-Song	Covid	00:30
Online Dating	Buzzed Driving Prevention	00:30
Smokey 75 - Al Roker	US Forest Service	00:30
Emmylou Harris: Spay or Neuter	PETA	00:30
Caitlin's Story - Organ Donation	organdonor.gov	00:30
Game Over - Sharing Online	APWG/NCSA/DHS	00:30
Alzheimer's - Tom	Alzheimer's Association	00:32
Do You Binge Drink? (UMU)	UMU ADWE	00:33
One Shot	NHTSA	00:30
It Was The HAMS	ARRL	00:32
Fatherhood Involvement: Groan	Fatherhood Involvement	00:30

Our Roads, Our Safety Campaign- "Meet Ingrid"	U.S. Department of Transportation	00:30
STEM: Anthem	STEM	00:30
Hunger: Olivia	Hunger Prevention	01:00

## **Issue: Religious/Community Issues**

### **Discussion of the Issue:**

There are many residents who do not have the opportunity to hear local programming. In this case it is a local church program. Shut-ins also cannot make it to church. Community members hear about local events going on in the announcements part of the service and local issues through the sermons.

### **Programming:**

Sundays @ 8:00 am - Sebring Presbyterian Church program. This program is pre-recorded from the Sebring church, providing local information about Sebring.

## **Issue: Religious/Community Issues**

### **Discussion of the Issue:**

There are many residents who do not have the opportunity to hear local programming. In this case it is a local gospel music program. Shut-ins also cannot make it to church sometimes. There are not many outlets for programs in the local African American community. This weekly program provides that outlet.

### **Programming:**

- A. Alex Smith's Gospel Show    Every Sunday 9:00am to 11:00pm  
This two-hour gospel music program provides local information about residents in the community. Prayers, readings and music are broadcast as part of the program. Community events and issues are announced weekly.

## **Issue: Religious Issues/Community Issues**

### **Discussion of the Issue:**

Alliance is located near a major retirement and nursing home center in Sebring, Ohio. Many of these people cannot make it to church. WRMU provides religious programming for shut-ins and those who cannot make it to church. Local announcements and activities for the community are provided each week. Listeners also learn about local issues for the Alliance community and church in the sermons each week.

### **Programming:**

- A. Union Ave. Methodist Church Service    Every Sunday at 11:00am to 12:00pm  
Live broadcast of local church service.

## **Issue: Religious Issues/Community Issues**

### **Discussion of the Issue:**

There are many residents who do not have the opportunity to hear local programming. In this case, it is a family-centered program with religious principles

### **Programming:**

- A. Family Matters Program from Spirit of Faith Christian Center    Every Sunday at 7:30am and Noon  
15-25 minute program focusing on family issues backed by religious principles

## **Issue: Public Affairs Issues**

### **Discussion of the Issue:**

In an effort to keep the community aware of events in the area WRMU provides hourly newscasts

### **Programming:**

Hourly newscasts weekdays, 8a-12p (during academic year)

## **Issue: Public Affairs Issues:** The Media Project Program List

Week of 4-4-22 On this week's Media Project, Alan, Judy, Rosemary and Barbara talk about coverage of President Biden's "gaffe," Hunter Biden's laptop and whether journalists missed the story, Mick Mulvaney being hired by CBS, and more.

Week of 4-11-22 This week Rex, Alan, Judy and Ira discuss White House Press Secretary Jen Psaki's alleged plan to depart for MSNBC, and the "revolving door" from government service to media. The panel also shares their thoughts on how public and legal notices should be disseminated to the public, and much more.

Week of 4-18-22 On this week's Media Project, Alan, Barbara, Judy and Rex talk about media coverage of state government, whether a Trump endorsement is newsworthy, how the media is failing the public on good news about jobs, and more.

Week of 4-25-22 On this week's Media Project, Alan, Rex, Mike and Ian talk about succession at the New York Times, the issue of "both side-ism," politicians who avoid interviews, and much more.

Week of 5-2-22 On this week's Media Project, Alan, Rex, Judy and Rosemary talk about whether journalists should attend the White House Correspondents Dinner, which resumes this year, and much more.

Week of 5-9-22 On this week's Media Project, Alan, Rex, Rosemary, and Ira talk the leaked how the press is covering the Supreme Court leak of a draft opinion on the landmark abortion case Roe v Wade, the value of local news, diversity, and much more.

Week of 5-16-22 On this week's Media Project, Alan, Judy, Rosemary, and Barbara talk about whether former President Trump will return to Twitter after Elon Musk said he would be welcome back, coverage of the of top secret intelligence leaks the U.S. is providing Ukraine, the Pulitzer prizes, and much more.

Week of 5-23-22 On this week's Media Project, Alan, Rex, Rosemary, and Ira talk about media coverage of the mass shooting in Buffalo, Rosemary answers a letter from a personal critic, and much more.

Week of 5-30-22 On this week's Media Project, Alan, Rex, Rosemary, and Judy talk about coverage of the mass shooting in Texas, how we should cover children, why more students are covering state legislatures, and much more.

Week of 6-6-22 On this week's Media Project, Alan, Rex, Barbara, and Ira talk about the role of the media when covering mass shootings, who chooses what makes news, and much more.

Week of 6-13-22 On this week's Media Project, Alan, Rex, Rosemary Barbara, and Ira talk about Fox news' decision not to carry live coverage of the January 6 Committee hearing this week, what happens when journalists invade a small community after a mass shooting, and much more.

Week of 6-20-22 On this week's Media Project, Alan, Rex, Rosemary and Ira talk about new threats and attacks on journalists, whether journalism is dead and much more.

Week of 6-27-22 On this week's Media Project, Alan, Rex, Rosemary and Judy talk about whether there's still too much coverage of former President Trump, whether Facebook and other social media should pay for the news, and much more.

**Issue: Public Affairs Issues:** The Academic Minute Program List

Week of 4-4-22 Willow Henry, professor of health care practice at Franklin Pierce University, examines how the health care field is changing rapidly.

Week of 4-11-22 Uli Wiesner, professor of materials science and engineering, discusses one tiny but important step forward in treating cancer.

Week of 4-18-22 Nathan McNeil, research associate at the Center for Urban Studies at Portland State University, examines how to help those who cannot afford transportation.

Week of 4-25-22 Asia Eaton, associate professor of psychology, discusses how a culture of care can have positive effects for the homeless population.

Week of 5-2-22 Bryan Kirschen, associate professor of Spanish and linguistics at Binghamton University, examines how a speech community reawakened online during the pandemic.

Week of 5-9-22 Oriol FeldmanHall, assistant professor of cognitive, linguistic and psychological sciences, explores how to discover the hidden intentions of others.

Week of 5-16-22 Florian Reyda, professor of biology, examines what parasites can tell us about a body of water's health.

Week of 5-23-22 Tomoko Udo, associate professor of health policy, management and behavior, describes how to lower the risk of suicides for those suffering from Borderline Personality Disorder.

Week of 5-30-22 Amal Alachkar, associate professor of teaching pharmaceutical sciences at the University of California, Irvine, breaks down the issues with one method of treatment for Parkinson's disease.

Week of 6-6-22 Stephen Bagwell, assistant professor of political science at the University of Missouri St. Louis, asks why the pandemic hasn't just affected our health, it's affected our rights, too.

Week of 6-13-22 Monica Daley, assistant professor of ecology & evolutionary biology at the University of California, Irvine, discusses why flying might not be the only thing birds can teach us about movement.

Week of 6-20-22 Linda Charmaraman, senior research scientist at the Wellesley Center for Women at Wellesley College, examines a positive effect of social media for one group.

Week of 6-27-22 Naniette Coleman, PhD candidate in sociology at the University of California Berkeley, determines how Wikipedia can help combat misinformation.

**Issue: Public Affairs Issues:** Earthwise Program List

Week of 4-4-22 The massive megadrought affecting the American West is now considered to be the driest two-decade period in the past 1,200 years. The lengthy drought has led to increased wildfires, reduced agricultural productivity, and reduced electricity generation by hydropower plants. The historically low water levels in the

largest two reservoirs in the U.S. – Lake Mead and Lake Powell – has triggered reductions in water allocations to Arizona, Nevada, and Mexico.

Week of 4-11-22 While plastic comes in all different shapes and sizes, those that are less than five millimeters in length are called microplastics. Primary sources of microplastics include microfibers from clothing, microbeads, and plastic pellets (known as nurdles). Secondary sources of microplastics come from larger plastic debris, like bottles and bags, that degrades into smaller bits over time.

Week of 4-18-22 When ocean water is too warm, corals expel the algae that lives in their tissues, which causes the coral to turn completely white. This is called coral bleaching. When this happens, the coral is not dead. However, corals are dependent upon the symbiotic relationship with algae and if conditions don't improve, they don't let the algae back in and the corals will die.

Week of 4-25-22 Australia's Great Barrier Reef is an ecosystem that can be seen from space. It has now suffered its 6th mass coral bleaching event since 1998. Previous events happened in 1998, 2002, 2006, 2016, and 2017. This latest bleaching has occurred even though this is a La Niña year, when more rain and cooler temperatures are supposed to help protect delicate corals.

Week of 5-2-22 Methane leaking from oil and gas wells is a real problem for the environment because methane is far more potent at trapping heat than carbon dioxide. The EPA has estimated that about 1.4% of the methane produced by wells nationally leaks into the atmosphere. However, environmental experts and energy industry engineers have been concerned that leaks from mines, wells, refineries, storage facilities, and pipelines are vastly underreported.

Week of 5-9-22 The world is awash in both waste plastic and in carbon dioxide emissions. Researchers at Rice University have discovered a chemical technique for making waste plastic into an effective carbon dioxide absorbent for industry.

Week of 5-16-22 The use of pesticides in global agriculture brings with it many problems including the killing of non-target, beneficial species as well as reversing pest-management gains from the use of conservation agriculture methods.

Week of 5-23-22 According to a new study by Cardiff University in the UK, Britain could achieve nearly half of the carbon removal needed to meet its climate goals by adding basalt rock dust to crop fields. The process is known as enhanced weathering and has been the subject of ongoing research in the U.S. at Cornell University and the University of California, as well as in the UK, Canada, and Australia.

Week of 5-30-22 Researchers at Chalmers University in Sweden have developed an entirely new way of capturing and storing energy from sunlight. The system is called the Molecular Thermal Energy Storage System or MOST. It is based on a specially designed molecule that changes shape when it is exposed to sunshine.

Week of 6-6-22 According to estimates, by 2040 there will likely be nearly 90 million tons of plastic pollution entering the environment each year. Particles of plastic have been found in virtually all parts of our planet including the land, the water, and even the air.

Week of 6-13-22 We hear a great deal about the environmental services provided by forests. Deforestation is one of the major factors contributing to increasing levels of carbon dioxide in the atmosphere. And, of course, forests – most notably rainforests – are major contributors to biodiversity.

Week of 6-20-22 It's no secret that our planet is heating up. According to scientists, the warming is primarily the result of increased anthropogenic greenhouse gas emissions. In fact, human activities are responsible for nearly all of the increase in atmospheric greenhouse gas emissions over the last 150 years.

Week of 6-27-22 The Arctic permafrost contains a massive amount of carbon in the form of frozen soil, which contains remnants of plants and animals that died millennia ago. Estimates are that there is 2 ½ times as much carbon trapped in this Arctic soil than there is in total in the atmosphere today.

### **Issue: Public Affairs Issues:** Climate Connection Program List

Week of 4-4-22

Doctor feels responsibility to speak up for the climate. Climate change is a major threat to health.

Week of 4-11-22

How Michigan could plug into an electric vehicle boom. With the right investments, the state could attract more auto production jobs.

Week of 4-18-22

Minnesota woman sees renewable projects as progress for rural areas. When a wind farm was built in her area, Mariah Lynne became a renewable energy advocate.

Week of 4-25-22

California ranch is getting ready for large electric farm equipment. The ranch is investing in charging stations and taking other steps to prepare for an all-electric future.

Week of 5-2-22

Startup tests technology to recover minerals from mine waste and recycled batteries. Some of the minerals used to make lithium-ion batteries are in short supply.

Week of 5-9-22

Prairie Island Indian Community uses nuclear waste fund for net-zero carbon goal. The tribe plans to install solar panels, make energy efficiency upgrades, and retrofit buildings to run on electricity

Week of 5-16-22

Plants species can migrate to adapt to climate change. But populations of animals that disperse plant seeds are declining.

Week of 5-23-22

Individual actions can add up to help the climate. Twenty-five to 30% of the pollution cuts needed to prevent dangerous climate change can happen at the individual and household level.

Week of 5-30-22

Weatherization and efficiency upgrades can help mobile home residents save money

Week of 6-6-22 European settlers drained portions of the forested wetland in Virginia and North Carolina

Week of 6-13-22 Whole Forest wants to make it economically viable to preserve the forest.

Week of 6-20-22 Homeowners typically see a 30% reduction on their electric bill and a 50% reduction on their gas bill

Week of 6-27-22 Minnesotans help trees migrate north. People are gathering seeds from southern and central Minnesota and planting the saplings in the state's northern forests.

### **Issue: Public Affairs Issues:** Strange Universe Program List

Week of 4-4-22 Everyone knows that Quantum mechanics can be non-logical. Yet it works when it comes to describing the behavior of atoms and all the other small stuff that makes up our universe. It has also been used to create new technologies such as the transistor. But to believe it means believing things about reality that very few of us would find acceptable. Even Albert Einstein, who helped establish quantum theory more than a century ago, came to question its principles for most of his life. This week we'll explore two basic principles of common sense that quantum theory throws away.

Week of 4-11-22 This week we'll hear about our galaxy's five most abundant elements, the remaining seven dozen elements (which together they make up just 4% of the universe) and the unknown dark matter.

Week of 4-18-22 The Morning Star, Venus, is about to perform a series of worthy conjunctions. Right now and for the rest of the month, it's the brightest member of a four-planet line-up. To its lower left hovers Jupiter; to its upper right you'll find dimmer Mars and then, highest up, Saturn.

Week of 4-25-22 Can you name worthy sky-spectacles that don't require knowledge of constellations, any equipment like a telescope or even binoculars, that are easy to find and strikingly fascinating? Most would cite eclipses, auroras, and meteor showers as filling all those check-boxes. But there's one more category. Bright conjunctions! Tune in to hear about dazzling conjunctions and what makes them so spectacular.

Week of 5-2-22 We are now at the new moon phase of the lunar cycle. This means all week we will be seeing crescents at twilight rather than full darkness and always low in the sky.

Week of 5-9-22 Mother's Day weekend brings the first quarter moon. Those events seem disparate, but they're actually linked. After all, the moon is feminine in most cultures. Hear how the the lunar day-night line is home to all the details.

Week of 5-16-22 Sunday night, May 15, we see a total eclipse of the moon. It is especially welcome because for the last couple of years every lunar eclipse has been penumbral, meaning the moon failed to touch even the edge of Earth's shadow.

Week of 5-23-22 Antimatter has the same appearance and behavior as ordinary matter. An antimatter star would look just like a normal one. But let an antimatter object touch anything made of conventional matter, and both vanish in a violent flash. Every version of the Big Bang theory says that equal amounts of matter and antimatter should have been created. Yet somehow we live in a matter-dominated universe. What happened to all the potential anti-planets and anti-stars?

Week of 5-30-22 Neutron stars don't get much attention these days. They're not as notorious as black holes, nor as capable of fully warping spacetime. But this story really started before dawn on July 4, 1054, when a new brilliant star abruptly appeared near the left horn of Taurus the Bull, very close to where the Sun is located during the next few weeks. It was seen in broad daylight for more than a month. Good backyard telescopes show this as the remnant of an exploded star 6,500 light-years away, whose tendrils still rush outward at a thousand miles a second, visibly altering the nebula every few years.

Week of 6-6-22 June 5 begins the 6-day period when the Moon is at its absolute best. Many imagine that the Full Moon is the jewel of the heavens. But astronomers know that that's when to close up shop and forget the universe. The Full Moon is disappointing because the sun then shines straight down like a flash camera to erase all shadows, making its wonderful craters disappear. As if that wasn't bad enough, its light is then so brilliant that all the lovely nebulae and galaxies and most meteors seem to vanish because they can't compete against such a bright background. Surprisingly, the Full Moon isn't merely twice as bright as a half Moon, but 10 times brighter!

Week of 6-13-22 The Big Bang theory, strongly supported by the cosmic microwave background and the cosmic expansion rate, says that starting 13.8 billion years ago, everything initially raced away from everything else like an inflating balloon.

Week of 6-20-22 We all know the names of the planets. Many people can even recite them in their correct order from the Sun. But actually seeing them in a line – well, that’s something special. And this month we’ll explain how and when that’s happening.

Week of 6-27-22 The summer solstice arrived earlier this week, a funny mixture of natural events and government rulings.