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## ISSUES AND PROGRAMS LIST

July 01, 2019 – September 30, 2019

### KCTS 9 & KYVE 47

401 Mercer Street  
Seattle, Washington 98109

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Selected Issues:

A Region in Transition: Urban Development

Immigration and Refugees

Race and Social Justice Issues

Environment and Ecology

Tech and Science Innovation

## **A Region in Transition: Urban Development**

Puget Sound is in the midst of a major transformation. Seattle alone added 21,000 new residents in 2016, an average of 57 each day, making it the fastest growing city in the country. What does this mean for the people who live here, and for those just arriving? What will this place look like 10 years from now? We will explore these questions about our rapidly evolving world.

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IN CLOSE – Healthcare for the Aging Homeless #309

(04:40) Magazine (**Local**)

Tue, 07/06/2019 – 09/05/2019 various times

Seattle's homeless population is aging, and along with age come health problems. Hughes Daniels is one of many sick homeless persons living in a shelter not equipped to handle his health care needs.

CROSSCUT NOW: STUDIO SESSIONS #101-104

(26:20) Interview/Discussion/Review (**Local**)

Sundays, in July beginning 07/07/2019 – 07/28/2019 06:30PM

One-on-one conversations between Crosscut Managing Editor Florangela Davila and some of America's most interesting leaders, thinkers and journalists. This season features interviews filmed during Crosscut Festival at Seattle University, May 3-4, 2019.

PBS NEWSHOUR #12606

Mon, 07/08/2019 6:00PM

(03:57) News (PBS)

Although cities across the country are struggling with a shortage of housing, especially at a manageable cost, there are millions of bedrooms going unused. Now, technology is enabling homeowners with rooms to spare to connect with renters who can't afford their own place. Stephanie Leydon from PBS station WGBH reports on how Boston has become a launching pad for the website Nesterly.

IN CLOSE – The Teardown #1, #304

(03:42) Magazine (**Local**)

Mon, 07/15/2019 – Fri 08/30/2019 various times

As Seattle's viaduct is razed, lives are changed. We tell the stories of those impacted.

PBS NEWSHOUR #12614

Thu, 07/18/2019 6:00PM

(02:27) News (PBS)

Communities across the country are struggling to create jobs and reduce homelessness. In Detroit, a nonprofit called Empowerment Plan has found a way to address both problems. The organization helps people in need with a unique, multipurpose garment, employment and a path toward continuing education. Special correspondent Mary Ellen Geist reports.

PBS NEWSHOUR #12615

Fri, 07/19/2019 6:00PM

(06:44) News (PBS)

Although preschool can provide children with a vital foundation for success later in life, only 43 percent of four-year-olds nationwide have access to public preschool. The rate varies widely, with no options available in some rural and low-income areas, sometimes called "childcare deserts." But a community outside Denver has found an innovative way to bring education to kids. Amna Nawaz reports.

PBS NEWSHOUR #12617

Tue, 07/23/2019 6:00PM

(07:56) News (PBS)

In the Dutch city of Rotterdam, architectural experimentation has become a way of life. Unlike many cities that are characterized by a particular building style, Rotterdam cultivates and celebrates its variety and range of architectural themes. Jeffrey Brown visited Rotterdam earlier this year and reports on how the city's history and culture fostered its remarkable architectural diversity.

IN CLOSE – The Teardown: The Architect #312

(04:51) Magazine (**Local**)

Thu, 08/22/2019 – Fri, 09/27/2019 various times

Architect David Miller has lived his entire life in proximity of Seattle's Viaduct. As a child, he traveled its concrete decks with his family and in his adult life he has peered out over the elevated highway from his office at work and his downtown apartment. And now that the Viaduct is coming down – or being "undone" in his words – Miller is playing a role in determining what comes after.

PBS NEWSHOUR #12639

Thu, 08/22/2019 6:00PM

(08:12) News (PBS)

Cruise liners offer scenic views you can't replicate from land, but they also cause downstream consequences. Some cities in Europe are joining forces to limit the impact of thousands of passengers being disgorged onto their picturesque streets and to determine sustainable solution to the problem of these cities being overrun with tourists. How do we deal with the growing saturation of tourism in desirable cities such as Seattle? Special correspondent Malcolm Brabant reports on new restrictions being imposed in Belgium, Croatia, Greece, Italy and elsewhere.

PBS NEWSHOUR #12666

Mon, 09/30/2019 6:00PM

(10:33) News (PBS)

Technology is transforming China, helping improve life in some ways, but also collecting big data. The government is beginning to convert that data and surveillance footage into social credit scores, which critics say can be used to penalize those who criticize the Communist Party. Nick Schiffrin reports as part of "China: Power and Prosperity," with support from the Pulitzer Center.

## Immigration and Refugees

Our region and country continue to be ever-more ethnically diverse. To foster an understanding and welcoming community we share the stories of the immigrant history past and present. A broad examination from news reports to personal stories connect the recent refugee crises around the globe to the impact in our communities. KCTS 9's Borders & Heritage is a committed series that looks at the region through the eyes of immigrants.

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### BORDERS & HERITAGE – Tacoma Refugee Choir #318

(05:36) Magazine (**Local**)

Mon, 07/01/2019 – Thu, 09/05/2019 various times

The Tacoma Refugee Choir brings together immigrants, refugees and community members through song.

### PBS NEWSHOUR #12607

Tue, 07/09/2019 6:00PM

(10:36) News (PBS)

President Trump announced Thursday that he's backing down from his legal fight to add a citizenship question to the 2020 census. Instead, he'll use an executive order to demand citizenship information from other government agencies. Yamiche Alcindor, Lisa Desjardins and Amna Nawaz join Judy Woodruff to discuss that development as well as news on Trump's immigration policy and social media summit.

### BORDERS & HERITAGE – Los Artistas #301

(23:50) Magazine (**Local**)

Fri, 07/12/2019 10:36PM

Wed, 07/17/2019 03:36PM

Wed, 09/04/2019 03:36PM

Meet four local Latino artists for whom art is not only a form of social expression but also a proclamation of heritage. Featuring visual artist Juan Alonso-Rodríguez, poet Claudia Castro Luna, folk musician Abel Rocha, and dancer and choreographer Alicia Mullikin.

### BORDERS & HERITAGE – Abel Rocha: Songs of the Workers #313

(05:40) Magazine (**Local**)

Sat, 07/20/2019, 10:51PM

Profile of Mexican folksinger Abel Rocha, and the workers' ballads he sings and plays.

### PBS NEWSHOUR #12622

Tue, 07/30/2019 6:00PM

(04:48) News (PBS)

President Trump's language about immigration and lawmakers of color has sparked a national conversation about racism and xenophobia. But every year, hundreds of thousands make their way to the U.S. and begin the rigorous process of becoming citizens. We talk to newly minted Americans at a Virginia naturalization ceremony about what the milestone means during this politically charged time.

BORDERS & HERITAGE – Vietnamese Refugees #314

(05:42) Magazine (Local)

Mon, 08/05/2019 01:49PM

Thu, 08/08/2019 10:52PM

Sat, 08/10/2019 08:49PM

A Vietnamese refugee and his family grapple with life under threat of deportation.

BORDERS & HERITAGE – Reina (Queen) #312

(04:43) Magazine (Local)

Mon, 08/05/2019 02:48PM

Seattle-based choreographer Alicia Mullikin is opening minds and challenging long-existing stereotypical notions of who can be a dancer.

PBS NEWSHOUR #12627

Tue, 08/06/2019 6:00PM

(06:46) News (PBS)

On Thursday, federal immigration officials released 300 of the nearly 700 people arrested Wednesday in Mississippi workplace sweeps believed to be the largest single-state action of the kind in U.S. history. The raids targeted immigrant workers in food processing plants. Jeffrey Brown reports and talks to Hamed Aleaziz of BuzzFeed News and Tony McGee, superintendent of Scott County Public Schools.

BORDERS & HERITAGE – A Day in the Life of a Cherry Picker #310

(03:24) Magazine (Local)

Thu, 08/15/2019 – Sun, 09/29/2019 various times

Washington State relies heavily on H-2A migrant farm workers. Here's one man's story.

PBS NEWSHOUR #12649

Thu, 09/05/2019 6:00PM

(06:01) News (PBS)

For some families, ensuring economic stability requires a wrenching choice: to leave children behind and find work abroad. Author Jason DeParle has written a book, "A Good Provider is One Who Leaves," that traces three generations of a single Filipino family as they move across the globe seeking a path out of poverty. He joins Amna Nawaz to discuss meeting the family and telling their story.

PBS NEWSHOUR #12657

Tue, 09/17/2019 6:00PM

(07:20) News (PBS)

The numbers of immigrant children being detained by U.S. authorities at the U.S.-Mexico border have dropped in recent months. Still, medical professionals continue to articulate concerns about the harmful effects that any detention can have on both the short- and long-term health of these kids. Amna Nawaz reports and talks to Alan Shapiro of the Albert Einstein College of Medicine.

PBS NEWSHOUR #12659

Thu, 09/19/2019 6:00PM

(03:10) News (PBS)

Toyin Ojih Odutola was born in Nigeria but moved to the U.S. as a child. When her classmates hesitated to interact with her "otherness," Toyin turned to drawing as an alternate world in which to immerse herself. She found that portraiture in particular enabled her to build characters with whom she identified. Ojih Odutola shares her brief but spectacular take on drawing from a vivid imagination.

### **Race and Social Justice Issues**

With rising racial and social tensions erupting around our country and within our communities, many are looking to understand these complex issues and find effective solutions. As a result of our civically-engaged citizens, Seattle has become a model for progressive policies. We provide an informative look at the history and present-day reality of racial, gender, and social inequality, and the solutions implemented across our region, nation, and world.

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BORDERS & HERITAGE – Creating a Black Trans Faith #315

(05:48) Magazine (Local)

Sat, 07/06/2019 – Mon, 08/26/2019 various times

J Mase III, a poet and educator, works to create a theology that specifically addresses the needs of black trans people.

POV – Call Her Ganda #3203

(01:26:46) Documentary (PBS)

Sat, 07/06/2019 11:00PM

Three women pursue justice for Jennifer Laude, a Filipina transgender woman who was brutally murdered by a U.S. Marine. In galvanizing a political uprising, they take on hardened histories of U.S. imperialism.

PBS NEWSHOUR #12610

Fri, 07/12/2019 6:00PM

(06:49) News (PBS)

Eric Garner's dying words, "I can't breathe," served as a rallying cry for protests against police brutality. But the Justice Department announced Tuesday it would not file charges against the officer involved in the incident. The decision closes the door on federal prosecution, as the statute of limitations expires Wednesday. Yamiche Alcindor talks to Katie Benner of The New York Times.

POV – Bisbee '17 #3204

(01:56:46) Documentary (PBS)

Sat, 07/20/2019 11:00PM

Combining documentary and scripted elements, this film follows several members of the close-knit community in Bisbee, Arizona, a former mining town, as they commemorate the 100th anniversary of the Bisbee Deportation, when 1,200 immigrant miners were violently taken from their homes by a deputized force, shipped to the desert on cattle cars and left to die. To be accompanied by the StoryCorps short film "Mi Abuela Panchita," a San Antonio bishop believes he is his family's dispenser of spiritual wisdom, until he is reminded by his aging abuelita that there are some things only our elders can truly grasp.

PBS NEWSHOUR #12619

Thu, 7/25/2019 6:00PM

(05:29) News (PBS)

This year marks the 25th anniversary of democratic rule in South Africa. A new generation of black South Africans, who grew up free of the restrictions of apartheid, are now transforming the country's cultural landscape -- beginning with its food. Special correspondent Fred de Sam Lazaro reports on how chef Zola Nene aims to bridge South Africa's racial divide, one meal and one cookbook at a time.

PBS NEWSHOUR #12620

Fri, 07/26/2019 6:00PM

(07:07) News (PBS)

In Dallas, two programs aim to shift the conversation around juvenile justice — one by bringing young people into the kitchen, and the other by using art to address trauma. Creative Solutions and Cafe Momentum offer juvenile offenders the chance to develop job skills, forge healthy relationships and process their emotions. Their recidivism rates are well below state average. John Yang reports.

POV – On Her Shoulders #3205

(01:26:46) Documentary (PBS)

Sat, 07/27/2019 11:00PM

Nadia Murad, a 23-year-old Yazidi, survived genocide and sexual slavery committed by ISIS. Thrust onto the international stage as the voice of her people, she must navigate bureaucracy, fame and people's good intentions.

PBS NEWSHOUR #12628

Wed, 08/07/2019 6:00PM

(07:01) News (PBS)

Friday marks the fifth anniversary of the deadly Ferguson, Missouri, shooting of 18-year-old Michael Brown Jr. by a white police officer. Protesters gathered in Ferguson after the incident to voice outrage, but the officer was never charged. Since then, activists including Brown's family have continued to push for change -- but say the trauma will never heal. Yamiche Alcindor reports.

PBS NEWSHOUR #12630

Fri, 08/09/2019 6:00PM

(08:13) News (PBS)

African Americans have lost millions of acres of farmland across the South during the last century, in a trend propelled by economic forces, racism and white economic and political power. Most of the losses occurred since the 1950s. John Yang talks to Vann Newkirk of The Atlantic, which highlights the story in its September issue, about the origins of what Newkirk calls "the great land robbery."

IN CLOSE – Seattle's Black Panther Mural #299

(06:32) Magazine (**Local**)

Thu, 08/15/2019 04:50PM

Franklin High School students paint a mural honoring the Seattle Chapter of the Black Panther Party on its 50th anniversary.

TO THE CONTRARY WITH BONNIE ERBE #2808

Sat 08/17/2019 05:00AM

(25:47) Interview/Discussion/Review (PBS)

2020 Gender Bias: Are female presidential candidates being treated unfairly? Moms & Housework: New study shows single moms do less housework than married moms. Traveling Solo: The risks for women who visit foreign countries alone. PANEL: Rina Shah, Latifa Lyles, Patricia Sosa, Patrice Onwuka.

PBS NEWSHOUR #12636

Mon, 08/19/2019 6:00PM

(07:52) News (PBS)

Portland, Oregon, has a troubling history of racial discrimination and tensions between police and African American communities. But now, a theater company is attempting to change the city's racial ecology through the arts -- and perhaps create a model for how communities can bridge the divide over other culturally fraught issues. Special correspondent Cat Wise reports.

AMANPOUR AND COMPANY #2037

Tue, 08/20/2019 11:00PM

(56:46) Interview/Discussion/Review (PBS)

Congresswomen Pramila Jayapal and Debbie Dingell join Christiane Amanpour to explain the "Medicare for All" bill.

PBS NEWSHOUR #12638

Wed, 08/21/2019 6:00PM

(05:52) News (PBS)

Native Americans received more attention from presidential candidates this week than in previous years. Nine 2020 Democratic hopefuls attended a forum in Sioux City, Iowa, to discuss U.S. treaty obligations to Native people, the epidemic of violence against Native women, health care and more. Lisa Desjardins reports and talks to Mark Trahant, editor of Indian Country Today and the event moderator.

PBS NEWSHOUR #12641

Mon, 08/26/2019 6:00:00 PM

(08:03) News (PBS)

A new book called "Our Women on the Ground: Arab Women Reporting from the Arab World" shares the stories of female journalists working in the Middle East. The editor, Zahra Hankir, and NPR correspondent Hannah Allam, who wrote one of the chapters, sat down with Amna Nawaz recently to discuss how Arab women reporting in the Middle East are both unusually limited and uniquely empowered.

FRONTLINE – The Abortion Divide #3708

(56:16) Documentary (PBS)

Tue, 08/27/2019 10:00PM

Inside the fight over abortion through the stories of women struggling with unplanned pregnancies. Drawing on a landmark FRONTLINE film from the 1980s, a look at both sides of the abortion divide in a community still embroiled in the conflict.



POV – The Return #2901

(01:26:46) Documentary (PBS)

Sat, 08/31/2019 11:00PM

In 2012, California amended its "Three Strikes" law, shortening the sentences of thousands of "lifers." See this unprecedented reform through the eyes of freed prisoners, disrupted families and attorneys and judges wrestling with an untested law.

FAMILY PICTURES – USA

(56:46) Documentary (PBS) Three Part Series

Part One: Monday, August 12, 2019 09:00PM

Part Two: Tuesday, August 13, 2019 08:00PM; Part Three: Tuesday, August 13, 2019 09:00PM

Host Thomas Allen Harris explores American cities, towns and rural communities through the lens of the family photo album, unearthing rich personal stories that expand our understanding of history, diversity and common values.

MANIFEST JUSTICE

(29:02) Documentary (Local)

Sun, 09/01/2019 06:30pm

Sat 09/07/2019 06:30pm

Against the backdrop of King County's pledge to reach 'Zero Youth Detention', 17-year old Jamari faces up to four years of detention after pleading guilty to robbery. Leading up to his sentencing, community justice advocates will urge the judge that Jamari is reformed, but prosecutors are skeptical.

MINE WARS: AMERICAN EXPERIENCE #2802

(01:56:46) Documentary (PBS)

Tue, 09/03/2019 08:00PM

Thu, 09/05/2019 02:00PM

Go inside the bitter battle to unionize coal miners at the dawn of the 20th century. The struggle over the power that fueled America led to the largest armed insurrection since the Civil War, and turned parts of West Virginia into a bloody war zone.

FRONTLINE – FLINT'S DEADLY WATER #3716

(56:46) Documentary (PBS)

Tue, 09/10/2019 10:00PM

Exposing the deadly toll from the Flint water crisis. A two-year FRONTLINE investigation uncovers the roots and extent of a deadly Legionnaires' outbreak during the crisis, and how officials failed to stop it.

POV – Grit #3210

(56:46) Documentary (PBS)

Sat, 09/14/2019 11:00PM

After her town is left submerged by a tsunami of mud, Dian, a politically active teenager, galvanizes her neighbors to demand reparations from the corporate powers accused of one of the largest environmental disasters in recent history.

LATINO AMERICANS #101-106

Mon, 09/16/2019 01:00PM – 03:00PM

Mon, 09/23/2019 01:00PM – 03:00PM

This series tells the story of early settlement, conquest and immigration; of tradition and reinvention; of anguish and celebration; and of the gradual construction of a new American identity from diverse sources that connects and empowers millions of people today. The series covers the 1500s to the present day.

#### **WILLIE VELASQUEZ: YOUR VOTE IS YOUR VOICE**

(53:58) Documentary (PBS)

Thu, 09/19/2019 03:00PM

Meet the charismatic pioneering activist whose rallying cry of “su voto es su voz” (your vote is your voice) started a grassroots movement that transformed the nation’s political landscape and paved the way for the growing power of the Latino vote.

#### **VOCES ON PBS – Provenir, Texas #303**

(56:46) Documentary (PBS)

Sat, 09/21/2019 12:00AM

Thu, 09/26/2019 02:00PM

Discover the true story behind the 1918 massacre of 15 Mexican men in this tiny border town. The film asks what led to the events of that fateful night and reveals the tensions that still remain along the border a century later.

#### **IN CLOSE – How Washington State Ensures Election Security #315**

(03:38) Magazine (**Local**)

Tue, 09/24/2019 – Mon, 09/30/2019 various times

Recent elections around the country have been plagued by security concerns: old voting machines malfunctioning, machine source code leaking to the internet, even allegations of voter fraud. So what is King County doing to safeguard its voters? We visited the county’s elections center to see how its ballot-counting systems are designed to protect against these threats.

#### **VOCES ON PBS – Adios Amor – The Search for Maria Moreno #302**

(56:46) Documentary (PBS)

Fri, 09/27/2019 11:00PM

See how the discovery of lost photographs sparks the search for a hero that history forgot - Maria Moreno, an eloquent migrant mother of 12 who became an outspoken leader for farmworker rights. Her legacy was buried - until now.

#### **Environment and Ecology**

The Pacific Northwest region is well-known for its natural and outdoors lifestyle. It’s a feature that makes it one of the fastest growing areas in the country. With climate change on the rise, we may be at risk of losing iconic landscapes, vegetation, and creatures. From the Pacific Ocean, to the Puget Sound, to the Snake River we provide a thorough examination of the impacts on our interconnected ecosystems and we celebrate the splendor of nature.

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NICK ON THE ROCKS #303-306

(05:00) Documentary (Local)

Fri, 07/05/2019 – Thu, 08/01/2019 various times

Central Washington University geology professor Nick Zentner explores Washington State natural history.

BORDERS & HERITAGE – Amazon Air #316

(03:14) Magazine (Local)

Wed, 07/24/2019 – Thu, 08/29/2019 various times

The Amazon rainforest covers over 2 million square miles and absorbs so much carbon and produces so much oxygen that scientists call it “the lungs of the Earth.” Now researchers from Pacific Northwest National Laboratory in Richland, Washington have encountered a bank of air so pure it changes our understanding of how clean the atmosphere can be, our perception of climate change and its impacts on human health for decades to come.

EARTH'S NATURAL WONDERS – LIFE AT THE EXTREMES #201-203

(56:46) Documentary (PBS)

Wednesdays, 07/24/2019 – 08/07/2019 07:00PM

Thursdays, 08/01/2019 – 08/08/2019 01:00PM

Explore the most extraordinary places on the planet in this three-part series. Visit six continents to learn how these natural wonders evolved and hear rarely told stories about the challenges their inhabitants face.

IN CLOSE – Markel Uriu Weaving a Colonized Landscape #305

(04:11) Magazine (Local)

Mon, 07/29/19 02:52PM

Through intricate large scale weavings of invasive species, artist Markel Uriu illuminates parallels between the colonization of human societies and its impact on the natural world. At the heart of Uriu's inspiration includes a personal resonance and connection to her Japanese grandmother's experience of internment during WWII.

PBS NEWSHOUR #12627

Tue, 08/06/2019 6:00PM

(08:16) News (PBS)

The Intergovernmental Panel on Climate Change is warning of a devastating global feedback loop around how humans produce and consume food. A new report urges immediate action on agricultural practices that contribute to greenhouse gas emissions, which exacerbate climate change and, in turn, make soil less productive. William Brangham talks to the World Resources Institute's Janet Ranganathan.

PBS NEWSHOUR #12631

Mon, 08/12/2019 6:00PM

(10:08) News (PBS)

Coal ash is a particularly dangerous byproduct of our dependence on fossil fuels. In communities that have dealt with coal ash spills, the incidents sparked concerns about toxins potentially seeping into water. Utilities have been pushed to adopt tougher safety standards -- but activists say the companies are resisting rules necessary for public health. Science correspondent Miles O'Brien reports.

PBS NEWSHOUR #12638

Wed, 08/21/2019 6:00PM

(08:16) News (PBS)

The Trump administration is responsible for the largest reduction of federally protected land in U.S. history, according to a recent study by the journal Science. And in the wide expanses of the American West, Trump's encouragement of industry and development has conservation advocates concerned for the future of public lands intended for varied use. Jeffrey Brown reports from central Montana.

IN CLOSE – Army Divers #311

(03:51) Magazine (Local)

Thu, 08/22/2019 – Thu, 09/19/2019 various times

Washington state partnered with an Army dive team remove over 1000 pounds of decades-old derelict nets deep in Puget Sound. In exchange for valuable deep water training for its divers, the Army detachment carefully untangled nets harming the rocky habitat and trapping marine life.

PBS NEWSHOUR #12646

Mon, 09/02/2019 6:00PM

(07:52) News (PBS)

Hurricane Dorian struck the Bahamas as a Category 5 storm at first, causing major destruction and flooding. Now Florida residents wait with trepidation to see if Dorian will make landfall there, where many are still recovering, both physically and emotionally, from the wreckage of previous storms. John Yang joins Judy Woodruff with the latest.

PBS NEWSHOUR #12648

Wed, 09/04/2019 6:00PM

(09:54) News (PBS)

The Amazon is the world's largest rainforest and a critical line of defense against climate change. But it's been steadily deforested since the 1970s, with nearly 20 percent of its land area wiped out. This year, pervasive forest fires destroyed vast expanses of rainforest, and Brazil's growing agribusiness is poised to transform more into farmland. Amna Nawaz reports from Mato Grosso, Brazil.

NOVA – Rise of the Superstorms #4508

(56:46) Documentary (PBS)

Wed, 09/04/2019 09:00PM

Fri, 09/06/2019 03:00PM

Sun, 09/08/2019 11:00AM

Dive into the devastation wrought by Hurricanes Harvey, Irma and Maria. How can scientists better predict these storms, and what does the 2017 season tell us about the likelihood of similar storms in the future?

PBS NEWSHOUR #12655

09/13/2019 6:00PM

(09:43) News (PBS)

Since arriving in the U.S. by boat to participate in the UN Climate Action Summit, 16-year-old Swedish activist Greta Thunberg has led crowds in both New York and Washington with a call for greater action against climate change.

OREGON FIELD GUIDE #3006, 3007

(29:00) Magazine (OPB)

Sun, 09/22/2019 12:30pm

Sun, 09/29/2019 12:30pm

This series explores some of the Northwest's outstanding outdoor wonders, fun activities and riveting occupations.

### **Tech and Scientific Innovation**

For decades the Pacific Northwest has been a region leading the world in scientific and technological innovation. From the MOHAI Museum, to the seemingly ever-expanding campuses of Microsoft and Amazon, we have a first-hand glimpse as the future evolves and a genuine interest in human discovery. Our science programming provides an opportunity for our entire community to be part of our rapidly advancing world. 2019 marks the 50th anniversary of the moon landing. The PBS Summer of Space programming showcases the history, and technology that took us to the moon and catapulted us into the modern era.

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IN CLOSE: Tech Addiction #307

(04:35) Magazine (**Local**)

Mon, 07/01/2019 – Fri, 09/06/2019 various times

Last year, the World Health Organization officially recognized gaming disorder — but not all experts agree on treatment, or if it's even a disease. Experts, therapists, and gamers attempt to grapple with how technology affects mental health.

CITY IN THE SKY #101-103

(53:21) Documentary (PBS)

Tue, 07/02/2019 01:00PM – 03:00PM

Learn what it takes to get a million people off the ground—from building the world's biggest passenger plane to controlling the flow of passengers through the busiest airport on the planet to the perils of takeoff in the coldest city on Earth.

PBS NEWSHOUR #12603

Wed, 07/03/2019 6:00PM

(05:49) News (PBS)

Boeing announced Wednesday a pledge of up to \$100 million for families and communities affected by the two recent crashes of its 737 MAX planes. Both accidents were found to involve software and engineering problems the company is now struggling to solve. Jeffrey Brown talks to Miles O'Brien about the technical complexity, a "systemic" failure at Boeing over safety and the public relations impact.

NOVA – BLACK HOLE APOCALYPSE #4501

(56:46) Documentary (PBS)

Wed, 07/03/2019 09:00PM

Fri, 07/05/2019 02:00PM

Sun, 07/07/2019 11:00AM

Join astrophysicist and novelist Janna Levin on a mind-blowing voyage to the frontiers of black hole science, which is shining new light on the most powerful and mysterious objects in the universe.

IN CLOSE: Livingston L. Holder, Jr. #303

(06:22) Magazine (**Local**)

Sun, 07/07/2019 – Wed, 08/28/2019 various times

Livingston L. Holder, Jr. wants more women and minorities to recognize that they can pursue their dreams in engineering. Holder graduated from the Air Force Academy as one of two black engineers in a classroom of 100 people. He says, "The more the youngsters who see us in these roles believe, 'Oh, I can do that.'"

CHASING THE MOON: AMERICAN EXPERIENCE #3103-3105

(01:56:46) Documentary (PBS)

Mon 07/08/2019 – Thu 08/01/2019 various times

Explore the early days of the space race, the struggle to catch up with the Soviet Union and the enormous stakes in the quest to reach the moon. This episode reveals both the breathtaking failures and successes of the developing U.S. space program.

SPACE MEN: AMERICAN EXPERIENCE #2806

(56:21) Documentary (PBS)

Tue, 07/09/2019 08:00PM

Fri, 07/12/2019 02:00PM

Meet the pioneering Air Force scientists and pilots who's Project Manhigh, which collected data about the biological and technical factors required to support human activity in space, laid the groundwork for the US space program.

PROJECT ASTEROID: MAPPING BENNU

(26:46) Documentary (PBS)

Tue, 07/09/2019 02:30PM

In 2016, NASA embarked on a new and unique mission: sending the Osiris-REx spacecraft to rendezvous with the asteroid Bennu to study the rocky space object and collect samples to return to researchers. Go behind-the-scenes and follow the efforts of a team of engineers, veteran professors, current and former students, and scientists at ASU School of Earth and Space Exploration. PROJECT ASTEROID follows the OTES team as they count down to the mission launch date, and profiles selected team members who give their personal perspectives on the challenges and rewards of this high-stakes undertaking.

IN CLOSE: Sorsby's #306

(05:54) Magazine (**Local**)

Wed, 07/10/2019 – Tue, 08/13/2019 various times

At UW Medicine's Retina Center Dr. Jennifer Chao is searching for novel therapeutics, to find ways that can help cure the Sorsby's fundus dystrophy disease. Dr. Chao hopes to slow down the disease to a point where patients outlive it or stop the disease altogether. To study the disease, stem cells from Sorsby's patients are grown in a dish.

SPACE CHASE USA

(56:46) Documentary (APT)

Wed, 07/10/2019 07:00PM

Fri, 07/12/2019 01:00PM

Sun, 07/14/2019 05:00AM

SPACE CHASE USA explores the extraordinary events that transformed the small beach town of Cocoa Beach, Florida into a bustling center for the American space program. Featuring a trove of archival material and interviews with long-time residents, former Apollo astronauts, and Cape Canaveral-based engineers and employees, the program charts the history of the space program in Florida during the 1950s and 1960s.

NOVA – Back to the Moon #4611

(56:46) Documentary (PBS)

Wed, 07/10/2019 08:00PM

Fri, 07/12/2019 03:00PM

Sun, 07/14/2019 11:00AM

Fifty years after humans first set foot on the moon, new scientific discoveries are fueling excitement for a return to the lunar surface -- this time, perhaps, to stay. Join the scientists and engineers working to make life on the moon a reality.

CYBERWORK AND THE AMERICAN DREAM

(56:47) Documentary (NETA)

Sat, 07/13/2019 11:00PM

This documentary looks at the impact of robotics and artificial intelligence on the future of work. Since the Industrial Revolution, new technology has increased wealth, freedom and life expectancy. But it has also destroyed outdated businesses and automated jobs. How can the U.S. best prepare for the challenges of this new technological disruption?

YEAR IN SPACE

(56:46) Documentary (PBS)

Wed, 07/17/2019 08:00PM

Fri, 07/19/2019 01:00PM

Sun, 07/21/2019 05:00AM

Tue, 07/23/2019 10:00PM

This film takes viewers behind-the-scenes of astronaut Scott Kelly's 12-month stay on the International Space Station where he tested human limits for space travel and laid the groundwork for a manned mission to Mars.

AMANPOUR AND COMPANY #2018

Wed, 07/24/2019 11:00PM

(56:46) Interview/Discussion/Review (PBS)

Hari Sreenivasan speaks with Richard Clarke about how we can defend ourselves online in an era of increased cyber threats.

NOVA – The Planets: Inner Worlds #4612-4616

(56:46) Documentary (PBS)

Wednesdays, 07/24/2019 – 08/14/2019 09:00PM

Fridays, 07/26/2019 – 08/16/2019 02:00PM

Sun, 07/28/2019 08/18/2019 11:00AM

Using unique special effects and extraordinary footage captured by orbiters, landers and rovers, we'll treat viewers to an up-close look at these faraway worlds. We'll stand on the dark side of Pluto, lit only by the reflected light of its moons, watch the sun set over an ancient Martian waterfall, and witness a storm twice the size of Earth from high above Saturn. And, we'll reveal how each of them has affected our own planet: Earth.

#### PBS NEWSHOUR #12620

Fri, 07/26/2019 6:00PM

(03:26) News (PBS)

New York City has been known for its pizza for decades, but now a surprising oven innovation is attracting new attention. At Columbia University, a lab is crafting ways to improve nutrition by 3-D printing pizza to precise dietary specifications -- and cooking it with laser beams. Science producer Nsikan Akpan shares this first-hand look at how engineers are lighting up new ways to cook a slice.

#### TO CATCH A COMET

(56:01) Documentary (PBS)

Tue, 07/30/2019 03:00PM

Wed, 08/07/2019 10:00PM

Fri, 08/09/2019 02:00PM

Watch this compelling documentary that details the complexities and challenges of the 10-year, four-million-mile journey of the European Space Agency's spacecraft Rosetta as it chased down and landed on a comet in a history-making feat.

#### BEYOND A YEAR IN SPACE

(56:46) Documentary (PBS)

Tue, 07/30/2019 10:00PM

Picking up where the first film left off Scott Kelly's last day in space and return to Earth-the final installment also introduces viewers to the next generation of astronauts training to leave Earth's orbit and travel into deep space.

#### FARTHEST – VOYAGER IN SPACE

(01:56:46) Documentary (PBS)

Wed, 07/31/2019 10:00PM

Launched in 1977, NASA's epic Voyager missions revolutionized our understanding of Jupiter, Saturn, Uranus, Neptune, and their spectacular moons and rings. In 2012, Voyager 1 left our solar system and ushered humanity into the interstellar age.

#### POV – Inventing Tomorrow #3206

(01:26:46) Documentary (PBS)

Sat, 08/03/2018 11:00PM

In preparation for the world's largest convening of high school scientists, teenage innovators from around the globe create cutting-edge solutions to confront environmental threats while navigating the doubts and insecurities of adolescence.



BREAKTHROUGH: THE IDEAS THAT CHANGED THE WORLD #101

(55:25) Documentary (PBS)

Wed, 08/14/2019 10:00PM

Fri, 08/16/2019 02:00PM

Take a mind-blowing journey through human history, told through six iconic objects that modern people take for granted, and see how science, invention and technology built on one another to change everything.

FORCES OF NATURE #101-104

(54:40) Documentary (PBS)

Tue, 08/20/2019 01:00PM – 04:00PM

The forces of nature have kept Earth on the move since it was formed billions of years ago. Though we can't feel the motion, we experience the consequences - from tidal bores surging through the Amazon rainforest to the ruinous power of hurricanes.

BLUE SKY METROPOLIS #101-104

(56:46) Documentary (PBS)

Wednesdays, 08/28/2019 – 09/18/2019 07:00PM

Aviation takes flight in early Los Angeles, becoming an industry of dreamers, risk takers and entrepreneurs. The region is America's "arsenal of democracy" during World War II, as two million workers build 300,000 aircraft. Critics see an unhealthy alliance developing between the federal government and aircraft manufacturers.

PBS NEWSHOUR #12644

Thu, 08/29/2019 6:00PM

(10:23) News (PBS)

The U.S. government spends about 0.7 percent of GDP on scientific research and development, down from 2 percent in the 1960s. Less investment means fewer chances for breakthroughs like the weapon-seeking robots that saved thousands of soldiers in Iraq and Afghanistan -- and created a new consumer products category. Economics correspondent Paul Solman reports on an effort to jump-start public R&D.

AMANPOUR AND COMPANY #2050

Fri, 09/06/2019 11:00PM

(56:46) Interview/Discussion/Review (PBS)

John Browne sits down with Christiane Amanpour to explain technology's potential to solve our biggest problems.

PBS NEWSHOUR #12638

Wed, 09/11/2019 6:00PM

(08:39) News (PBS)

The technology underpinning blockchain is a powerful decentralizing network architecture that could revolutionize many industries. Now, some artists are leveraging blockchain to help guarantee the authenticity of their work -- and ensure that they get paid. Miles O'Brien reports on how digital documentation is putting power back into artists' hands, even when no tangible object exists.