

CHIEF DULL KNIFE COLLEGE
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AISES Chapter Chartered



AMERICAN INDIAN SCIENCE
AND ENGINEERING SOCIETY

The American Indian Science and Engineering Society's mission is to substantially increase the representation of American Indians in Science, Technology, Engineering, and Mathematic studies/careers. Through scholarships, internships, workforce development, career resources, national/regional conferences, science fairs, leadership development, and other STEM focused programming, AISES is the leader in STEM opportunity for American Indians.

CDKC AISES members include: Troy Bearcomesout, Ryon Olson, Race Littlehead, Hailey Ash-Eide, Andrew Lincoln, JP Alden, Steve Vought, Mason Hazel, Forrest Oldman, Mariah SoldierWolf, Kaylee SoldierWolf, Calvin Russette, and Lynette Peppers.

ROBOTICS



A new program founded to introduce students to the building, wiring, and programming of robotics. Outreach projects to the surrounding schools are also in the planning stages. CDKC's

robotic collection currently stands at 9 robots, with more to come soon. CDKC Robotics Club members include: Troy Bearcomesout, Steve Vought, Lynette Peppers, Haley Ash-Eide, Ryon Olson, Mason Hazel, and JP Alden. Contact Troy at 477-6215 Ext-197 for more info.

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www.cdkc.edu

President's Corner



It would be interesting to find another group of Cheyenne speakers other than here and in Oklahoma. The reason why it would be interesting is that there is always a question about languages that puzzle a lot of people. The question is this one: is it a dialect or is it a language? One definition could be that a dialect is an off-shoot of a language and is still understandable by speakers of the main language, whichever language that may be. A language is the major means of communication between people and may have been an off-shoot itself way back in the distance past. Take the Northern and Southern versions of the Cheyenne language. These versions are still one language, peppered with slight variations because of regionalisms, geography, different flora and fauna, different relationships with the English language and with white people, and the list of influences goes on. These differences cause differences in the lan-

guage. Now if a language is slowly separated from the larger population of speakers and there's no dialog between the two and over the years this separated language starts to acquire its own grammar, begins to sound different, word usage is different, then that's the beginning of a totally different language. That's how come languages like Piegan and Arapaho and Cheyenne, though they all belong to the Algonquian language family, cannot be understood by each other. They have to resort to English or Plains Indian sign

language. There once was a proto-language from which they all came but over time they became quite distinct languages. That proto-language spawned a family of related languages whose speakers could not understand each other. That's why, a few years ago, CDKC launched two forays into Canada to attempt to find Cheyenne speakers who allegedly resided somewhere on a lake or in a marshy area in Saskatchewan. The forays were not successful because of lack of time and money. If there are Cheyenne speakers in Canada and we were able to contact them, it would be interesting to see how the language and culture have changed over time. Would their language be a language unto itself or would it be a dialect of Cheyenne?

CESU

During the week of September 11th through the 15th, Bill Briggs attended the annual RM-CESU (Rocky Mountain-Cooperative Ecosystem Studies Unit) executive committee meeting in Gunnison, Colorado. The event was hosted by Western State Colorado University.

What is the Cooperative Ecosystem Studies Unit?



Bill Briggs with Rocky Mountain CESU Group

A nationwide consortium of federal agencies, universities, conservation organizations, and other partners working together to support agency missions and informed public trust resource stewardship.

What kind of projects does the RM-CESU do?

The RM-CESU develops interdisciplinary projects that address the cultural, social and natural resource issues of the Rocky Mountain region. Some example project themes include:

- ◆ Understanding ecosystem and social change and impacts to cultural resources
- ◆ Improving university and agency interaction and collaboration
- ◆ Enhancing dialogue between and among scientists, scholars, and resource managers
- ◆ Understanding, addressing, and educating about the national importance of the legacy of the wild Rockies and wilderness
- ◆ Assisting with the training of effective resource managers and the education and training of future agency employees.

Chief Dull knife has been a member of the consortium since 2014 and hopes to have students and faculty participating in projects with RM-CESU partners in the near future. The University of Montana is the hosting site for the CESU and the NPS stations a liaison with the unit there. Faculty and agencies submit proposals to the unit and the CESU coordinates and finds funding for the projects.

In addition to the general business of the CESU, the meeting hosted two students who presented the results of their research projects that were conducted with the NPS at Rocky Mountain National Park while several other projects were highlighted in poster form. In addition the committee toured a Paleolithic / Folsom site known as the 'Mountaineer site' that is on Western State Colorado University land which is changing the way the Folsom culture is looked at; visited a cheat-grass study site in a local park and toured the 'RuMBL' Rocky Mountain Biological Lab which is a field study station in the ghost town of Gothic, Colorado. The station is a world class facility with research studies on going for seventy years and more.

Reflections

John Stands In Timber

Recorded by Margot Liberty



Now there's two ways to tell that. Some stories says he went over the hill other side, then he come back and stand on top; when he came back he had feathers on the head which be did not have when he went out of sight, and a bow with no string on it; they call it a stringless bow. They watched him and he walked forward and backward, signaling them to come on up. They start to run up there, but when they got there he was already on the top of the other side. They went on after him. While they were going across, Sweet Medicine came back on top, and this time he had an elk horn and a stick on the left side, and a spear that was crooked on one end and sharp on the other, and wrapped in otter skin and eagle feathers. [They were] tied on the end and three other places, four in all. And he signaled them to come on. They started running up there, and Sweet Medicine went out of sight; and when they came up there he was already going up the third ridge. And this time he had a red shield, and his body was painted red, and feathers on the head; signaling those soldiers to come on up. So they run up there -- it was the fourth time -- and he was already on top of the other side, and they wondered what he was going to do next.

When he appeared on top he had a bunch of feathers on the head and a rawhide rope tied on the side of his belt and a rattle like a donut shape, 4 or 5 inches across with feathers all along, in his right hand.

He signaled them again to come on up; and when they did come up,

he was on the other side on the fifth ridge. This time he did not go out of sight. But, when he turned, he had a peace pipe in his hand and a buffalo robe, and one eagle feather stuck from [the] right side thru the braided lock of the head.

Now, what did these 5 places represent? First, it was the Swift Fox society that was organized by another man, who was instructed to organize this military society. And they dressed that way; they have a stringless bow and feathers on the head and they paint their bodies. In later days they used red cloth like shirts. And those [are] the ones they call Swift Foxes. And the second one was the Elks; they had a stick on the right side that was a spear, crooked on one end and wrapped with otter skin and four eagle feathers tied on it; that represents the Elk Society, and there's a story how this was organized. And the next ones was the Dog Soldiers; and the fourth one was the Red Shields -- this [society] they call Dog Soldiers are now changed to Crazy Dogs; today they use the same songs and the dance and the ways of that party or society. And the fifth one was the Chiefs; the chiefs wear one eagle tail feather on the back of the head across from the left; and that's the emblem of the chiefs, that eagle, and the arrows. Today we see the American dollar with the eagle and the four arrows holding it, and that's almost identical. And, when they come out, this last one is disappeared, he could not see Sweet Medicine no place. It was a flat open country. The military ordered the men, "Go out there anyhow, you might see him someplace." So, they split up that way, and went to different directions, as far as they could go. But he had disappeared for good, for four years.

And he came back, and that old man [was] still alive, and he was not killed. In later days the story was told he was killed. He was not killed. And another thing that represents these things; it's always four. He crossed four ridges, and the fifth one, that's the chiefs. And when they have the Arrow Ceremony, they don't allow any person who vows to make a certain kind of ceremony -- not minor ceremonies; what I mean [is,] a man might vow to make an Arrow Worship ceremony -- and then they can not have a Sun Dance; [until after the Arrow Ceremony.] They have to have that ceremony first, and then the Sun Dance comes. If a man [is] living in that village, he must go away across four ridges, or four rivers, until that Sun Dance is over. And then he comes back and joins the village and everything is all right. But, it is strictly against the rule if he stays in the village when they put up a Sun Dance, if he has vowed an Arrow Ceremony. He would do more harm than good to put on that Sun Dance. And that's for that purpose.

NIH Board Visits CDKC

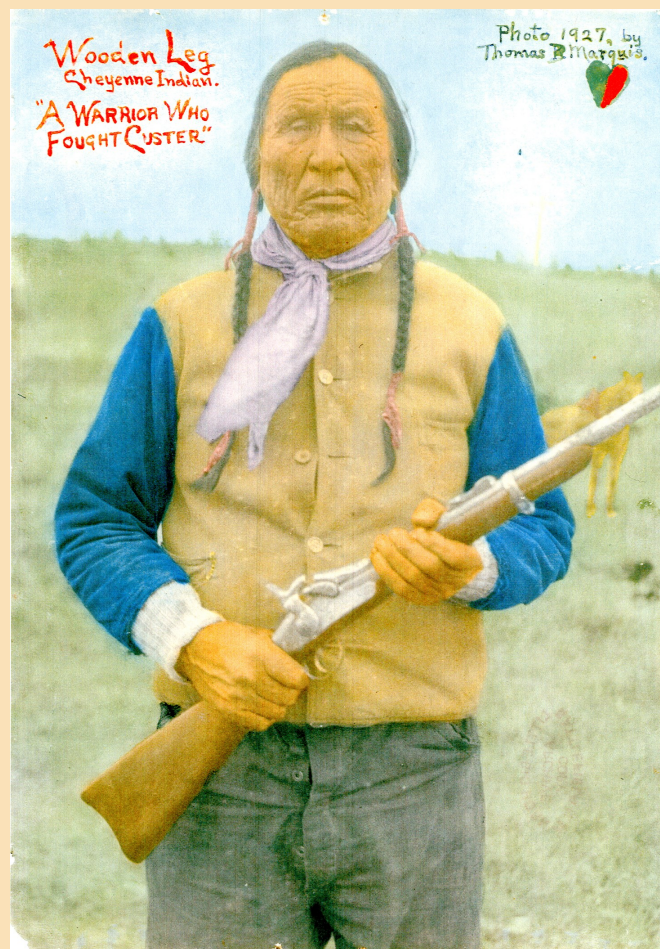


Dr. Dianna Hooker (CDKC), Dr. Brian Bothner, (MSU) Director and Principal Investigator of the Montana INBRE (IDeA Network of Biomedical Research Excellence), Mary E. Wilson, MD (Harvard), Dr. Joe Dan Coulter (University of Iowa), Dr. Ann Bertagnolli (MSU), Dr. Joseph Brain (Harvard)

External Advisory Committee (EAC) for Montana INBRE along with the new director and program coordinator visited Chief Dull Knife College earlier this Fall. The group was very interested in traveling to a Tribal College and one of their partner institutions. They met with Dr. Dianna Hooker, other CDKC Project Leaders and student interns during their visit. The campus tour highlighted the West Nile Virus Research Lab, the research green houses and the Cultural Center. The group were fascinated with learning some of the local culture and history along with seeing firsthand the research opportunities the college offers undergraduate students. INBRE funding is used for student research on the presence or absence of West Nile Virus on the Northern Cheyenne reservation. Student interns collect mosquitos, prepare them for analysis, and then analyze them using a PCR (Polymerase Chain Reaction) instrument. In addition to the WNV research, CDKC has other ongoing research in alternative energy, growing culturally relevant plants, high altitude ballooning, water quality, GIS, sediment sampling on the Tongue River and educational research on mastery based mathematics programs offered at the college.



The Mullin Collection



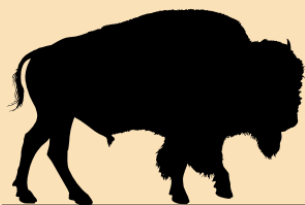
CDKC Rocket Club

CDKC's rocketry program has introduced around 35 students to engineering, physics, and rocket design/building. Students are given the opportunity to get hands-on experience with high-powered rockets and see their hard work turn into success.

Each school year CDKC Rocket Club participates in the "First Nations Launch" rocket competition held in Wisconsin. The competition is divided into two categories: the AISES challenge and the Tribal challenge. This school year CDKC is limited to one category, the AISES challenge. Several members will also level 1 and level 2 certify through the Tripoli rocket organization. Outreach projects to the surrounding schools are also in the planning stages.

CDKC Rocket Club members include: Troy Bearcomesout, Ryon Olson, Race Littlehead, Hailey Ash-Eide, Andrew Lincoln, JP Alden, Steve Vought, Mason Hazel, Forrest Oldman, Mariah SoldierWolf, Kaylee SoldierWolf, and Calvin Russette.





WOODENLEGS LIBRARY

Mon-Thrs | 8am-6 pm, Fri | 8am-4:30pm

406-477-8293 | library@cdkc.edu

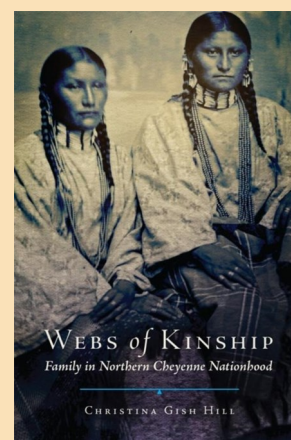
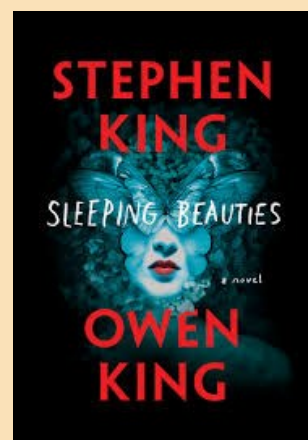
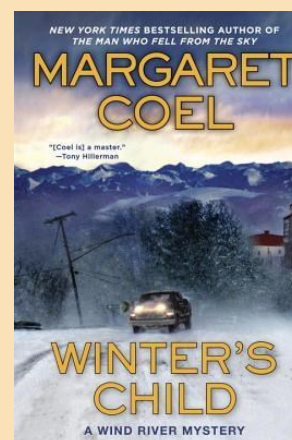
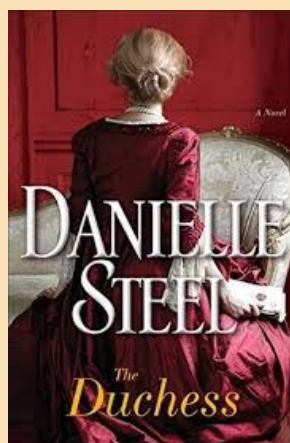
CDKC and Woodenlegs Library welcomes new library director, Jerusha Shipstead. Jerusha grew up in Colstrip and earned her BA in History from Montana State University Billings and MLS from Emporia State University. She was most recently library director at Dawson Community College.



Library Staff, left-right: Audrey Arpan, Jerusha Shipstead, Thelma Peppers

BOOK NOOK

Check out *(seriously, come check them out)* these new titles!



BIRNEY ARROW

Oct 5, 1959 - - - - - Ed: D. Hollowbrest - - - - - Rates 1.50/10 issues
Birney, Montana

At this writing the Birney Arrow has 15 paid subscribers scattered in five states. Some promised to subscribe and still we have not heard from them. As long as I have access to this typewriter I'll be learning to type with both hands without looking at the keys and hope for the increase of the number of subscribers.

The Charles Socktis family of Denver will be in Birney indefinitely or till Frank Socktis has recuperated from his illness now in Crow hospital under treatment. Charlie says there's no work for them at times since they've been in Denver under the relocation program.

Forrest Liberty and D. Hollowbrest have been sawing and hauling blocks to Lane Deer Wednesday and Thursday last week to people needing firewood. Indian families with atcam and wagon never had to worry about firewood thirty or forty years ago, contrast with this today.

Not having seen the Diamond Jubilee at Ashland last week and unable to go there in those days of "thumbs down on hitchhikers", can only venture a few words of the Diamond Jubilee. 75 years is a long time in which over the years the St. Labre Mission strove to bring the Cheyennes' interest in education and the white man's religion. An average of 10-12 Indian young people graduate each year and the number of school children attending each year since the founding of the mission has increased from twenty to 400.

Mr. and Mrs. Clarence Medicinetop have been in Lane Deer all last week and they expect to return to Birney before becoming too well acquainted with the Boarchums.

Mrs. Coon reports she and an accomplice were coming up to Birney about 8:30 Saturday and topped a hill at the same time Chris Shavehead and Clifford Bighad did. Cliff turned to avoid a head-on collision, but the car's side was hit and knocked into a ditch. Chris and Cliff went on leaving the scene of the accident and were picked up in Ashland. The moral is: Never leave the scene of an accident.

The R.B. Liffhands, Margie and Ruth Shavehead, Threefingers, and Elmer and Mabel Fightingbear and others who went to work in Billings are now home as the seasonal work has come to a close, except the sugar beet which is now underway.

The Indian parflech has been undergoing a change in this modern age. The electric and gas refrigerators have introduced by 3 or 4 families in Birney.

Peter Rising Sun of Busby passed away early last week at his home. He was the oldest son of Rising Sun, who served as a scout under the command of Gen. Nelson A. Miles at Ft. Keogh. A son, Harry and a daughter, Mrs. Willis Fightingbear; two brothers Oliver and William; two sisters Mrs. James Bigback and Mrs. John Russell, several nieces and nephews survive him, and was a member of the Chiefs. He died at the age of 72 and was buried at Busby Thursday.

The Northern Cheyenne Traveling Arts and Crafts Exhibit consisting of paintings by Cheyenne artists and beadwork and crafts by Cheyenne women may have been shown at the Diamond Jubilee and was shown at the Northern Cheyenne Indian fair at Lane Deer Aug 31. The Traveling Exhibit is sponsored by the Wyoming Women's Federated Club and directed by Mrs. Hila Gilbert of Sheridan, Wyoming.

Birney should be proud of the four boys serving in the army; three are in Germany and one in Alaska (USA) and of the two girls attending Haskell Institute, Lawrence, Kansas. This year we expect Irma and Dolores to get us in on the ground floor in regards of the current football season.

Total Eclipse of the Sun



This garage is where balloons were inflated on the day of the eclipse. It took quite a few helpers to launch this extra-large balloon from Sent Into Space, a private company out of the UK that flies scientific payloads balloons.

Once outside of the fill garage, the balloons had to be brought to the launch site without touching the ground or any other objects that might pop the balloon. The Wyoming wind wasn't helping.



Because of the tight schedule, students had to run back to the garage after each launch to start filling the next balloons

©dmgaugler

The 2017 Total Solar Eclipse was studied and attended by CDKC staff and students. At the Casper site students assisted in launch and recovery of "photo" payloads.



Students looking to get help paying for college must submit a Free Application for Federal Student Aid (FAFSA). The FAFSA is used by schools to put together your financial aid package, which can include grants and work-study at Chief Dull Knife College. The website to fill out the application is www.fafsa.ed.gov. Students and parent(s), as appropriate, will also need an FSA ID (username & password) to apply for financial aid online. The FSA ID replaced the FAFSA PIN in 2015; the website to create an FSA ID is www.fsaaid.ed.gov. Beginning with the 2017-18 FAFSA, students will be required to report income and tax information from an earlier tax year. For example, on the 2017-18 FAFSA, you and your parent(s) if applicable will report your 2015 income and tax information, rather than your 2016 income and tax information. If you have any questions or concerns about the application or the financial aid process you can contact the financial aid office at (406) 477-6215 extension 106.

Interested in an externship in Business or Allied Health?

For Business externship see Anthony Wuest-Room 300

For Allied Health externship see Brian Stiff-Room 302

Call 406-477-6215

Brian Extension 140, Anthony Extension 122



Adult Basic Education and HiSet Program

The Chief Dull Knife College adult education department offers the adult basic education course, HiSet (High School Equivalency) preparation classes. The courses are free of charge.

The adult basic education program is designed for adults who have academic skills that are in need of improvement, review and refreshing.

ABE is for those who do not have a high school diploma and wish to work toward and the high school equivalency exam (HiSet) or those who have a high school diploma and wish to become “college ready.”

Students enrolled in adult education will receive free college transition services which include preparation for the college placement test, financial aid and scholarship information and assistance. Students will also gain career readiness skills.

Please contact Lorraine Waters, ABE/HiSet Coordinator/Instructor. 477-6215 X-156

Monday - Adult Basic Education (ABE)/HiSet registration, TABE testing and placement 10:00AM- 2:00PM

ABE/HiSet Courses are not graded. Progress through the series of course work is accomplished by mastery of each level.

HiSet Schedule

HiSet is the high school equivalency program. The schedule is as follows.

Tuesday – HiSet Registration and Scheduling: 9:00AM-4:00PM. See Joey Ditonno in the student activities center to register for the high school equivalency exam. There is an administration fee to take the HiSet exam. The fee can be paid to the CDKC business office in room 201.

Thursday – The HiSet Exam is offered every 2nd and 4th Thursday. Please make sure your registration and fees are in place on Tuesday prior to taking your exam.



Watching the eclipse (just before totality) from the ground station.



Inside of a payload container

2017

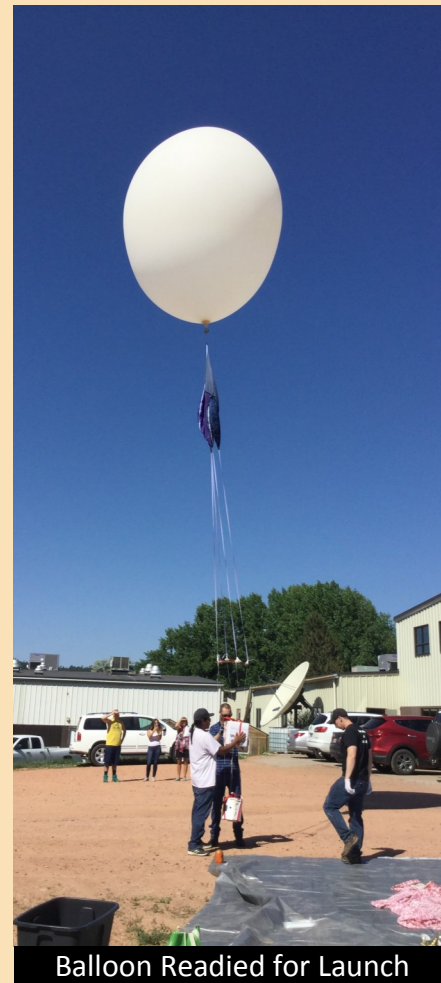
Eclipse



Successfully recovering the payload from ranch land in Nebraska.

Heads in the Clouds

This summer, CDKC students Forrest Oldman, Steve Vought, and Bessie Roundstone participated in a nationwide eclipse ballooning project. This involved 55 teams from across the country that were livestreaming high-altitude video of the moon's shadow crossing the Earth using camera-equipped balloons that can float up to 100,000 feet high. For the eclipse on August 21st the students went to Ft. Laramie, WY to launch a balloon from within the path of totality. The balloon launches were led by Montana Space Grant Consortium, and CDKC students worked alongside students from the University of Montana and Montana State University to launch multiple balloons back-to-back in the hours leading up to the eclipse. Steve Vought was in charge of the 360-degree camera that captured the eclipse from all angles. Bessie Roundstone ran an experiment to test the effects of the upper atmosphere on bacterial spores. Forrest Oldman monitored the video livestream as it was relayed to NASA's website. The students worked hard to make sure the launches were successful, and they were rewarded with a rare opportunity to see the total eclipse from 100,00 feet.



Balloon Readied for Launch



Boys & Girls Club campers at Crazy Head Springs watch a practice launch



Above the Clouds, August 2017



Lame Deer from 5000 feet above during summer of 2016



Forrest Oldman, Race Littlehead, and Ian Fleming of UM monitor the live stream during the practice launch.



Steve Vought (right), Forrest Oldman (left), and Jennifer Fowler of UM (bottom) put finishing touches on the payload before a practice launch this summer at CDKC.