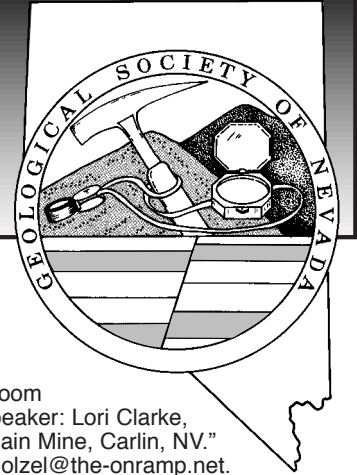


GSN NEWSLETTER



May 2002, Vol. 16, No. 5

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CALENDAR OF EVENTS

- May 8
Wednesday** WINNEMUCCA CHAPTER MEETING: Humboldt Room at the Red Lion Hotel/Casino, Winnemucca, NV. Speaker: Lori Clarke, Newmont Mining Corp. Title: "The Geology of the Rain Mine, Carlin, NV." Bar opens at 6:45 pm., talk-7:00 pm. Fred Holzel, holzel@the-onramp.net.
- May 16
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- May 17
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- May 23
Thursday** SOUTHERN NEVADA CHAPTER MEETING: Lilly Fong Geoscience Building, Room 102, UNLV, Las Vegas, NV. Max Blanchard, retired planetary geologist from NASA and currently teaching at UCCSN in Las Vegas. Title: "An introduction to the impact process and its importance throughout the solar system." Social-5:30 pm. Chris Riecken, 702/435-5664.
- June 15, 16
Sat & Sun** GSN SPRING FIELD TRIP, see details and registration form on page 5.
- June 21
Friday** GSN SYMPOSIUM 2005 - Third Organizational Meeting: Round Table Pizza, N. McCarran and Mae Anne Ave., Reno, NV. 12 noon. Dave Shaddrick, 775/746-2071 or Laura Ruud, 775/323-3500.
- June 23
Sunday** GSN ANNUAL GOLF TOURNAMENT, see details and registration form on page 2.

GSN Newsletter is published monthly except June and July

Geological Society of Nevada, PO Box 12021, Reno, NV 89510-2021 USA, 775/323-3500

CALENDAR OF STUDENT POSTERS

May 17, 2002, GSN Meeting

Carlos Loayza, CREG Graduate Research Assistant

Preliminary Results of a Geological Study of the Cerro Yanacocha Gold-Silver Deposit, Yanacocha District, Northern Peru

Aasha Pancha, PhD Student, Seismology

Earthquake Rates in the Basin and Range Province: Consistency With Geodesy?

Alfredo Vitaller, CREG Graduate Research Assistant

Structural Setting of Epithermal Precious Metal Deposits at the Veladero Project, Valledel Cura District, San Juan, Argentina

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News and Announcements

FROM THE PRESIDENT

Dave Shaddrick, GSN President 2001-2002

Good God – The meeting year is over and my term is just about over! Time sure flies when you're having fun. It's been a good year and contrary to what you may have heard, being a GSN officer is mostly fun and it is rewarding. This is a great organization and I encourage all of you to actively participate in it.

The GSN has been guided through the year by an excellent group of officers and committee chairs. Bob Thomas, Cami Prenn, Ann Carpenter, Elizabeth Zbinden, Heidi Anderson (Kuzma) and Greg French have worked hard through the past year to leave the GSN better than they found it. D.D. LaPointe and Liz Crafford have continued to make the education committee a significant GSN contributor to earth science education and the education community in general. Mario Desilets has continued to keep our web site up to date and improving. Laura Ruud, the GSN Office Manager is the glue that binds it all together. Raye Buckley has continued to create the high quality, professional appearance we have come to expect in our publications. I do hope the new officers have as much fun and as much support as I have had through my year as president.

One final note of Business. You will see in this newsletter (page 7) the long promised Symposium 2000 final summary. It is pretty much what I reported last month. We are now in the formative stages of Symposium 2005 and this is a great time to get involved in an event that is anticipated by a large segment of our profession and is critically important to the well being and reputation of GSN.

Good luck to all of you and above all, enjoy yourselves.

GEOTEMPS SPONSORS STUDENT MEMBERSHIPS

The GSN would like to take this opportunity to once again thank Lyle Taylor of GEOTEMPS, Inc. for paying the membership dues of our full-time student members. For the current fiscal year, 2001-2002, the GSN has 21 student members attending the Mackay School of Mines. Each year, Lyle pays the student dues so they can be a part of the GSN for free. It is a great opportunity for the students to be involved in a professional organization where they can attend the meetings and rub elbows with future employers and coworkers. Thank you Lyle, Sue and all of the gang at GEOTEMPS!

GOLF TOURNAMENT SIGN UP

The annual GSN golf tournament will be held on **Sunday, June 23rd** at the Washoe Golf Course, with a 1:00 shotgun start. Plan to arrive 30-45 minutes early to allow for registration and practice. You can sign up individually or make your own team of 4 players. The format will be a 4-person scramble, and teams will be handicapped and will be competing for prizes. Following the tournament, we will have a barbeque in the picnic area. Both the prizes and the barbeque are sponsored by **Eklund Drilling Company Inc.** Non-golfing spouses and friends are invited to attend the barbeque for \$5. Entry fee this year is \$55, and includes golf, prizes, drinks and the Barbeque. We **MUST** have payment in the GSN office **NO LATER THAN MONDAY, JUNE 17TH! No registrations or team changes will be accepted after this date** as we need to have the teams and carts assigned prior to Tournament day. You can register by filling out the form below and mailing it with your payment to the GSN office, or by contacting Laura Ruud, 323-3500, gsn@mines.unr.edu. Once again, GSN appreciates the generous support for this tournament provided by **Eklund Drilling Company Inc.** **Many thanks to Lance, Marty and Dale.**

Golf Tournament Registration	
Sunday, June 23, 2002	
NAME _____	
WK PHONE _____	FAX _____
HOME PHONE _____	
ADDRESS _____	

HANDICAP _____	OR AVERAGE SCORE _____
Cost includes greens fee, cart, prizes, and a barbeque to follow the event = \$55.00.	
AMOUNT INCLUDED WITH THIS FORM	\$ _____
PAID W/CHECK # _____	
CREDIT CARD # _____	
VISA _____	MC _____ EXP. DATE _____
SIGNATURE _____	
(as it appears on card)	
NUMBER OF GUESTS EXPECTED AT BBQ _____	
Payment must be received by Friday, June 17 th , 2002. No refunds after June 17 th .	
Fax: 775/323-3599 or mail to GSN office: PO Box 12021, Reno, NV 89510-2021	

Thanks to Layne Christensen Company and International Directional Services for hosting the April meeting.

GSN May 17, 2002 Membership Meeting

Date: Friday, May 17, 2002
Time: Social-6:00, Dinner-7:00, Meeting-8:00
Cost: \$17.00 (dinner)
Reservations: 775/323-3500; fax 323-3599 or e-mail:
gsn@mines.unr.edu
Deadline: Reserve by noon Wednesday, May 15

Location: Elks Lodge, 597 Kumle Lane, Reno, Nevada
Directions: Across (W) from the Reno-Sparks Convention Center (S Virginia St), just behind the Les Schwab Tire Center
Speakers/topic: Jonathan G. Price, Director & State Geologist, Nevada Bureau of Mines and Geology. See abstract below.

AFTER PRODUCING 50 MILLION OUNCES OF GOLD FROM THE CARLIN TREND, WHAT DO AND DON'T WE KNOW?

Jonathan G. Price, Director and State Geologist, Nevada Bureau of Mines and Geology

What do we know, and what remains to be known, about Carlin-type gold deposits? This talk will cover two aspects—what the public knows (or we hope they will know) and what we geologists think we know.

In the spring of 2002 the Carlin trend reached a landmark in production, 50 million troy ounces of gold. The significance of this achievement is being conveyed to the public with the help of the Governor, the Nevada Mining Association and its member companies, the Nevada Division of Minerals, and the Nevada Bureau of Mines and Geology. The actual 50 millionth ounce, made into a commemorative coin, is being donated to the W.M. Keck Museum at the Mackay School of Mines by the mine operators on the Carlin trend (Newmont, Barrick, and Glamis Gold). Our message to the public is summarized in a poster (NBMG Special Publication 30), in a series of graphics that are posted on the NBMG Web site (<http://www.nbmgs.unr.edu/slides/slides.php?f=50m>), and in the following bullets:

- We are in the midst of the biggest gold-mining boom in American history.
- The Carlin trend is one of the three most productive gold mining regions in the world (the other two are the Witwatersrand in South Africa and Muruntau in Uzbekistan). The Carlin trend currently produces nearly 4 million ounces of gold annually, contributing about \$1.8 billion to Nevada's economy (about 2.5% of the Gross State Product).
- The U.S. is a net exporter of gold, one of few mineral or fuel commodities for which we have a positive balance of payments. Nevada accounts for 75% of current annual production in the United States.
- Gold mining directly provides thousands of jobs for Nevadans, indirectly provides thousands more, helps build and maintain infrastructure in rural parts of the state, and broadens the tax base for education and other government programs. Highly skilled mine workers, including heavy equipment operators and mechanics, engineers, and computer operators, earn the highest average wages of any industry in the state.
- Reclamation progresses as a part of the life cycle of mining.
- Deposits on the Carlin trend have set new standards for gold mining throughout the world. Technological advances, such as agglomeration of crushed rock to improve heap leaching, improvements in autoclave design, development of larger trucks, bio-oxidation, and computer-assisted controls in surveying, assaying, mining, and processing, have made what had been essentially worthless rock into valuable ore.
- What is 50,000,000 ounces of gold worth? In terms of value of production, the 50 million ounces were worth \$20 billion in today's dollars, and John Dobra, Director of UNR's Natural Resources Industry Institute, estimates that the expenditures for goods and services required directly and indirectly by the mining operations increased the economic benefit to \$34 billion in today's dollars
- How much gold is 50 million troy ounces? It weighs 1,714 short tons (1,555 metric tons). If you put all that gold into one cube, it would be 4.3 meters (14 feet, 2 inches) on a side. In comparison, all the gold ever mined in Nevada (about 135 million ounces) would fit into a 6.0-meter cube; all the gold ever mined in the U.S. (about 479 million ounces) would fit into a 9.2-meter cube, and all the gold ever mined in the world (about 4.5 billion ounces) would fit into a cube 19.4 meters on a side.
- Although used primarily for jewelry and bullion, gold has many industrial applications in such areas as electronics and telecommunications, lasers and optics, medicine, and transportation. For example, all computers and cell phones contain gold because of its superior electrical conductivity and resistance to corrosion. One of the interesting industrial uses of gold is reflective coatings on windows (such as on the Mirage and Mandalay Bay hotels in Las Vegas). This coating, which takes advantage of gold's unique property of reflecting infrared light and heat while transmitting green and blue light, thereby reducing the costs of air-conditioning, is only a few atoms thick. Fifty million ounces could cover the State of Nevada with a sheet of gold one atom thick.

• There's more to come! The companies have discovered more gold on the Carlin trend, and exploration continues. Known reserves and resources, some of which will depend on higher prices for gold or better technologies for mining and processing, stand at about 40 million ounces of gold, enough for another decade of production, and exploration should extend production for many years beyond that.

New exposures in mines and research in recent years have revealed much about the character and origin of the Carlin-type deposits. Drawing from a few personal observations and the geological literature, including GSN publications and a new NBMG Bulletin on deep ore deposits of the Carlin trend (in preparation for publication this year or early 2003, with detailed geologic maps and chapters authored by company geologists), we will review what is known about structural and stratigraphic controls for the location of orebodies, mineralogical form of the hypogene gold, the age of the deposits, relationships to igneous activity and tectonics in the area, elemental associations, characteristics of wall-rock alteration, origin of the ore-forming fluids, and certain aspects of the mechanisms for hydrothermal transport and deposition of the ore. We will then discuss some unknowns, including depth of formation of the ore deposits, the significance of arsenic and other trace elements for the origin of the deposits, details of the mechanisms for ore deposition, significance of silicification, role of carbon in some of the deposits, importance of magma types and chemistry, iron mobility in the hydrothermal fluid, fate of calcium dissolved from the host rocks, why there is a 5- by 40-mile trend at all, the origin of copper and zinc mineralization in some deposits, source of gold, and how Carlin-type deposits relate to other ores in the region. We will also discuss new deposit types (for the Carlin trend and altogether new models for ore deposits that might be discovered someday on the trend and elsewhere) and exploration concepts that flow from considerations of what we do and don't know about the Carlin trend.

RETIRING OFFICERS

The GSN would like to express their sincere thanks to the retiring officers who have generously given of their time to work on the GSN Executive Committee for the past year. **Dave Shaddrick** has put in so many hours to the GSN, and accomplished so much in his term as President this year. We appreciate all of his effort in getting some of GSN's house in order. Dave is currently leading the Symposium 2005 organizing committee, so he will still be around. **Ann Carpenter** served as Secretary this year and did an excellent job. Her input at the meetings was indeed an asset to the Committee. As a new Director of the GSN Foundation, we will continue to benefit from her enthusiasm. **Heidi Anderson Kuzma** who was co-chair of Publications, was a great addition to the committee this year and she helped in the effort of reducing the GSN's inventory. These types of volunteers are what makes the GSN tick. If you see them around, please give them a personal thank you for volunteering their time.

The GSN Foundation wishes to thank the following donors for their support:

"Donor" Level

David Fott
Michael Migdal
Tench Page

"Gold" Level

John Livermore
In Memory of H.C. Wire
(by Jeremy Wire)

SLATE OF NOMINEES FOR 2002-2003 EXECUTIVE COMMITTEE

The nominating committee has completed its work and is pleased to present the following slate of nominees for GSN officers, committee chairs and GSN Foundation Directors. Nominations will be officially closed at the May 17, 2002 general membership meeting and the election will take place at that time.

Nominees for GSN officers and committee chairs: President, Bob Thomas; Vice President, Clancy Wendt; Treasurer, Cami Prens; Secretary, Gassaway Brown; Membership Chair, Greg French; Publications Chair, Elizabeth Zbinden.

Nominees for GSN Foundation officers and directors: President, Bob Thomas; Vice President, Clancy Wendt; Treasurer, Cami Prens; Secretary, Gassaway Brown; Director, Joe Kizis; Director, Greg French; Director, D.D LaPointe; Director, Ron Parratt; Director, Ann Carpenter; Director, Doug Cook.

STUDENT DINNER FUND GOING STRONG

Due to the generous donations of many individuals in our organization, the student dinner fund has been able to continue the practice of sponsoring students at the monthly meetings. Each month we have anywhere from four to nine students attending the talks and enjoying a delicious meal on us. The balance in the fund is \$1115. It doesn't fluctuate much because some individuals give **every** month, which offsets the dinners used each month. More students are attending this year and costs have exceeded donations this year by \$151 since the October meeting. It is at this time we would like to thank all of those who have donated to the fund this fiscal year.

Kel Buchanan
Greg Ekins
Del Flint
Robert Horton

Bill Johnston
Don & Jeannine Lamar
Debbie & Eric Struhsacker
Anonymous

THANK YOU ALL ON BEHALF OF GSN'S STUDENT MEMBERS!

If you would like to donate to this fund, you can send a check to the GSN, PO Box 12021, Reno, NV 89510 or you can charge it to a Visa or MasterCard. Contact Laura at the GSN office 775/323-3500, gsn@mines.unr.edu.

SPRING FIELD TRIP TO YERINGTON AND HUMBOLDT MAFIC COMPLEX

Please see the enclosed sign up form for the upcoming GSN field trip which will take place June 15-16. Space is limited, so get your payment in early to guarantee a spot! The theme of the trip is "Jurassic Magmatism and Metal Deposits in Western Nevada". While the focus is geological, we will also consider the environmental issues at Yerington, including a couple of short papers in the guidebook, as well as a short talk at the edge of the Weed Heights pit by Art Gravenstein of NDEP.

SPRING 2002 FIELD TRIP

JURASSIC MAGMATISM AND METAL DEPOSITS IN WESTERN NEVADA

Itinerary for Spring Field Trip scheduled for June 15th and 16th staying in Lovelock and visiting the Yerington District and Humboldt Mafic Complex.

Saturday, June 15

7:00 am Meet at UNR parking lot on 17th St and North Virginia Street.
 7:30 am Vehicles leave promptly at 7:30 am
 8:45 am Vehicles arrive at Weed Heights Pit Overlook to start Yerington District Tour. John Dilles is Leader. Stops to observe alteration and structure. (Art Gravenstein of NDEP will also present a short update on the environmental cleanup issues at Yerington)

Lunch at Mickey Pass

Afternoon Continue Yerington Tour west to Ann-Mason and Buckskin Range.

7:00 pm Hosted Social and Complementary Dinner at Lovelock Ramada Inn

Overnight Lodging – Lovelock Ramada Inn

Sunday, June 16

7:00-8:00 am Breakfast at Ramada Inn
 8:30 am Vehicles leave Lovelock for Humboldt Mafic Complex tour. David Johnson is leader.
 9:00 pm Arrive at Stop 1 overview Northern Buena Vista Hills

Lunch at Buena Vista Mine

Buena Vista Mine traverse
 4:30 pm Depart Buena Vista Mine
 6:30 pm Arrive Reno/UNR Campus

Price includes: transportation; one night lodging; lunch & dinner Sat; Breakfast and lunch Sunday; 2 field trip guide books (GSN and SEG #32), snacks, beer, and soft drinks.

Reservations will be on a first-come, first-serve basis. We will be using rented Suburban-size vehicles, & are looking for **volunteers to drive their own Suburbans, Tahoes, etc. and drivers to drive the rented vehicles.** In order to keep the entourage down to a reasonably small number, **the field trip is limited to 40 attendees.** Payment must be in the GSN office for your reservation to be guaranteed.

Many thanks to the following sponsors: **ALS Chemex, American Assay Labs, Contract Geologic Services, Eklund Drilling, GEOTEMPS, Inspectorate Labs, Nevada Contact, and Zonge Engineering.**

Please complete and submit the following form ASAP.

Spring Field Conference Sign Up

Name _____

Daytime Phone _____ Fax _____

Company _____

Address _____

Email _____

Person to contact in case of emergency:

Name _____ Phone _____

Lodging needed in Lovelock: Y ___ N ___

Single ___ Double ___

Roommate (or we will assign) _____

MEMBER COST*:

double room	\$120.00
single room	\$140.00
w/o Lovelock lodging	\$100.00

NON-MEMBER COST*:

double room	\$140.00
single room	\$160.00
w/o Lovelock lodging	\$120.00

*NOTE: If you already have a copy of Society of Economic Geology Guidebook #32, please subtract \$32.00 from above costs.

Amount included with this form \$ _____

Paid with Check # _____

Visa ___ MC ___ Exp Date _____

Credit Card # _____

Signature _____

(as it appears on card)

Payment must be made by June 3, 2002

No refunds after June 7, 2002

FIRST 40 PEOPLE TO PAY WILL GET TO GO!!!!

Fax: 775/323-3599 or mail to GSN office:

P.O. Box 12021, Reno, NV 89510-2021

Or email to: gsn@mines.unr.edu

or check the GSN website at www.gsnv.org for form and info

___ I can drive my own vehicle (seats ___)

___ I will volunteer to drive a rented Suburban.



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WHAT A PIT CONTEST

Reminder to try your luck in the
"What A Pit" contest.

Just visit the GSN website: www.gsnv.org and click on
"What A Pit" to view the pit photo and see if you can identify it correctly. If you have any questions, contact Mario Desilets @ desilets@unr.edu or call 775/784-6691x125.

UP-COMING EVENTS

May 8, Wednesday – WINNEMUCCA CHAPTER MEETING: Humboldt Room at the Red Lion Hotel/Casino, Winnemucca, NV. Speaker: Lori Clarke, Newmont Mining Corp. Title: "The Geology of the Rain Mine, Carlin, Nevada." Bar opens at 6:45 pm, talk at 7:00 pm. Contact Fred Holzel, holzel@the-onramp.net, for more information.

May 10 – Northern NV section of SME meeting. Noon at the Bonanza Casino, Reno, NV. See the website for more information: www.smennv.org.

May 11&12 – 36th Annual Jackpot of Gems, Reno Gem and Mineral Society. Dealers, exhibits, guest artists, demonstrators, children's activities, door prizes, pan for gold. Exhibit Hall, Livestock Events Center, Reno, NV. Call 775/356-8820 for information.

May 16, Thursday – ELKO CHAPTER MEETING: Western Folklife Center, Elko, NV. Speaker and topic to be announced. Refreshments at 6:30 pm. Contact Leslie Creel, 775/468-4400 for information.

May 16 – Colorado Scientific Society meeting. Colorado Mountaineering Center, Golden, CO. Contact Eric Nelson for more information at 303/273-3811 or enelson@mines.edu.

May 17, Friday – GSN MEMBERSHIP MEETING: Reno Elks Lodge, Reno, NV. Speaker: Jonathan Price, Nevada State Geologist, NV Bureau of Mines & Geology, Reno, NV. Title: "After Producing 50 Million Ounces of Gold From the Carlin Trend, What Do and Don't We Know?" Social-6 pm, dinner-7 pm (\$17), talk-8 pm. Contact Laura Ruud, 775/323-3500, email: gsn@mines.unr.edu.

May 23, Thursday – SOUTHERN NEVADA CHAPTER MEETING: Lilly Fong Geoscience Building, Room 102, UNLV, Las Vegas, NV. Max Blanchard, retired planetary geologist from NASA and currently teaching at UCCSN in Las Vegas, Title: "An introduction to the impact process and its importance throughout the solar system." Social-5:30 pm. Contact Chris Riecken, 702/435-5664 for information.

June 15 & 16, Sat & Sun – GSN SPRING FIELD TRIP, see details and registration form on page 5.

June 21, Friday – GSN SYMPOSIUM 2005 - Third Organizational Meeting: Round Table Pizza, N. McCarran and Mae Anne Ave., Reno, NV. 12 noon. Contact Dave Shaddrick, 775/746-2071 or Laura Ruud, 775/323-3500 for more information.

June 23, Sunday – GSN ANNUAL GOLF TOURNAMENT, see details and registration form on page 2.

August 9th - 11th – Nevada Petroleum Society (www.nbmg.unr.edu/nps/); Annual Field Trip; Ely NV; Detachment and Attenuation in Eastern NV and its Application to Petroleum Exploration. Contact Bill Ehni: 775-883-1107 (ehni@aol.com) or Jim Faulds: 775-784-6691 X159 (jfaulds@unr.edu) for reservations or additional information.

September 22-29 – AEG-AIPG 2002 Joint Annual Meeting "Gambling with Geologic Hazards," Peppermill Hotel, Reno, NV. Contact contact: Julie C. Keaton, AEG Meetings Manager at 909-337-0657 (aegjuliek@aol.com), or Jon Price at 775-784-6691 extension 126 (jprice@unr.edu). See AEG's Web Page - <http://www.aegweb.org>.

SYMPOSIUM 2000 FINAL STATEMENT

Symposium 2000 Treasurer, Rich DeLong, compiled and submitted to the Executive Committee this final statement of earnings and expenses. All proceeds have been turned over to GSN. It was a very successful Symposium and, as a new committee gets started organizing the next Symposium in 2005, this report serves as a timely reminder of why GSN volunteers spend so much time in putting on these meetings.

GSN Symposium 2000 Final Financial Report

INCOME

Booths	\$42,900.00
Field Trips	\$62,165.00
Short Courses	\$28,700.00
Advertising	\$10,320.00
Sponsorships	\$75,967.69
Luncheons	\$11,750.00
Publications	\$25,055.00
Other Income	\$4,705.86
Registrations	<u>\$215,450.00</u>
	\$477,013.55

NET INCOME

	\$189,057.92
Publication + CD Costs	<u>-\$79,564.79</u>
	\$109,493.13

Cash Proceeds from Symposium	\$109,493.13
Original Seed Money Returned	<u>\$9,231.53</u>

\$118,724.66 TOTAL TRANSFERRED TO GSN

EXPENSE

Booth Expense	\$7,393.77
Field Trips	\$64,676.36
Short Courses	\$26,123.20
Reproduction Costs	\$21,574.52
Postage	\$20,643.07
Meeting Supplies	\$14,167.08
Office Costs	\$15,269.24
Personnel Costs	\$31,299.03
Facilities Cost	<u>\$86,809.36</u>
	\$287,955.63

GEOLOGICAL SOCIETY OF NEVADA



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