

DECEMBER 17, 1987

The meeting opened with Pres. A. Albert presiding.

ROLL CALL OF OFFICERS: Absent: A. Puma

The minutes of the previous meeting were read, and with corrections M. Kobel made, a motion seconded by F. Puma, to accept them, carried.

TREASURER'S REPORT: Balance on hand \$2,454.33. H. Becker made a motion, seconded by F. Puma to accept the Treasurer's report as read, carried.

BILLS: \$541.00 - Liability Insurance
20.00 - Refreshments - Mrs. Smith

F. Puma made a motion to pay the bills, seconded by H. Becker, carried.

CORRESPONDENCE: The secretary read a letter of resignation from Bruce Goodenough and the 2 checks received from the gas company for a total of \$13.68.

NEW MEMBERS: Joseph Neubert was sworn in as a new member, He was sponsored by K. & A. Grupp.

E.C.F.S.C.: It was reported that the names of members sons or daughters, aged 12-14 must be submitted next meeting for the summer week at Camp Rushford.

CAMP COMMITTEE: A. Grupp reported that the camp and cabin was in good shape and there was wood and gas left.

SHOOTING COMMITTEE: W. Nelson reported that the annual fox hunt is to be held February 13, and 14.

LAND COMMITTEE: It was reported that the Lucas property is to be divided among the family and kept for hunting or to be sold. It was rumored that Stan's daughter is buying 6 acres across from our property.

FUND RAISING: The tickets for next summer's raffle will be distributed at next month's meeting. 450 tickets are being printed, and the raffle is to be similar to the last one except instead of a bow for one of the prizes, a gun is being added.

UNFINISHED BUSINESS: R. Raczka reported that he needs coupler, pump, and motor for the log splitter. He is planning on putting the splitter on 2 rails. He got a price of \$85. for an 11 gal. pump.

NEW BUSINESS: M. Kobel made a motion, seconded by F. Puma that \$20. be appropriated for parts for the log splitter, carried. F. Puma made a motion, seconded by D. Zilbauer that we should not renew our membership in Ducks Unlimited, defeated. D. Giles made a motion, seconded by G. Feldman that \$20. be sent to Ducks Unlimited for the 1988 membership, carried. M. Kobel, chairman of the nominating committee, submitted the following names for Board of Directors - A. Puma (declined), A. Albert (22), K. Moser (22), J. Green (11), G. Kohl (23) and D. Kelker (23). D. Smith (8) and F. Puma (10) were nominated from the floor.

The results of the election for the 1988 Board of Directors met and elected the following officers of the Buffalo Red & Gun

Club for 1988:

- A. Albert - President
- K. Moser - Vice President
- G. Kohl, - Treasurer
- D. Kelker - Secretary
- J. Green - Sgt. at Arms

At the January meeting, there will be an installation dinner. F. Puma made a motion, seconded by M. Kobel that each member participating in the dinner pay \$5.00 each with the club paying the difference, carried.

GOOD & WELFARE: It was reported that during the last deer season, a member of the club loaded his gun in the cabin, which is a direct violation of the safety rules of the camp. It was pointed out to the membership that guns should not be loaded or unloaded in or around the cabin, and especially guns should not be discharged in the cabin area or toward the cabin. The Board of Directors is to draw up some rules regarding the loading and unloading of fire arms at the camp.

A. Grupp made a motion to adjourn, seconded by F. Puma, carried.

Respectfully submitted,

Donald C. Kelker

Secretary

DCK:jek

CC: President

BUFFALO ROD & GUN CLUB

MINUTES OF OCTOBER MEETING 10-15-87

ROLL CALL OF OFFICERS: Absent - Art Albert, Don Kelker.

Reading of minutes by George Kohl Motion to Accept - Al Eckel

Seconded - M. Kobel

Correspondence - none

Bills - \$7.00 for 50 postcards to D. Kelker

Return of \$6.14 from Ocky on work party

Motion to pay bills by Ocky, seconded D. Grupp

TREASURER'S REPORT - Read by G. Kohl \$2,448.88 - Motion to accept -
M. Kobel, Seconded - M. Wiesner

ERIE COUNTY FEDERATION OF SPORTSMEN: K. Moser reports a letter from
Camp Rushford closed due to
sickness of a child - make sure kids are healthy when you send them
there.

CAMP COMMITTEE: Ocky reported on work party - Wood was cut - road
was screwed up. Log splitter broke - club not
liable. New pad poured for trap house. Two loads of shale gravel
to be brought up to camp for roadway. No cost to club.

CONSERVATION COMMITTEE: A. Grupp reports trees all o.k.

LAND COMMITTEE: Report by K. Moser on possibility of purchasing
some acreage for club, or the alternative of
leasing some acreage for the hunting season (October, November,
December and May). The report was too lengthy to write down
everything. A discussion followed the report - nothing to be
settled till new business.

UNFINISHED BUSINESS: Parts needed for log splitter - by K. Moser and D. Smith. Relief valve - 2 stage pump - fuel pump - carbureator and coupling. Discussion held - decided to get the thing done up.

NEW BUSINESS: Motion by B. Raczka - seconded by Ocky that B. Raczka fix up motor for log splitter and get parts to finish it up (up to \$100.).

LAND PURCHASE: After another lengthy discussion, a motion was made by J. Pyszcynski, seconded by Tony Hajdaj to lease 75 acres from Paul Jacobs for this year's hunting season - not to exceed \$300.00 - carried.

Motion by J. Pyszcynski, seconded by T. Hajdaj to make an offer of \$10,000. for 41 acres of land from Ruth Bemus; carried.

Roger Winter is selling calendars.

Next month's meeting moved one week due to deer season.

GOOD & WELFARE: Motion by J. P. Ysczynski, seconded by T. ~~Hajdaj~~ Hajdaj to assess members for not making work partys. Board of Directors to discuss this and make a recommendation to this.

My thanks to Don Kelker for picking this month to miss a meeting.

It was an experience!

Motion to adjourn Art Grupp; seconded by D. Grupp.

Respectfully submitted,

DZ/DK/jk

Dick Zaverl

CC: President

BUFFALO ROD & GUN CLUB

NOVEMBER 12, 1987

A/c
12/27/87 → 2444.33

The meeting opened with Pres. A. Albert presiding.

ROLL CALL OF OFFICERS: All present.

The minutes of the previous meeting were read, and a motion was made by A. Eckel seconded by M. Kobel to accept them as read, carried.

TREASURER'S REPORT: Balance on hand \$2,654.57. A. Grupp made a motion to accept the Treasurer's report as read, seconded by F. Puma, carried.

BILLS:

\$ 79.52	- Ferrellgas
20.00	- Refreshments - Mrs. Smith
22.00	Postage - D. Zaverl
63.45	64.25 - Niagara Mohawk
45.00	- E.C.F.S.C. dues

F. Puma made a motion, seconded by A. Puma that the bills be paid, carried.

BOARD OF DIRECTORS: The Board of directors met and voted new rules regarding work days at camp. Each member is required to attend and work one full day per year at camp. This is to be accomplished during one of scheduled work weekends held each year at camp, of which there is normally 3 (for a total of 6 days).

If a member fails to attend one of these workdays, he will be fined \$10.00 which must be paid by the November meeting or he will be considered delinquent and subject to be dropped from the membership rolls.

The following exceptions apply:-

Excluded from these work days is:-

1. Any member that is over 55 years old.
2. Any member who has 50 or more years membership with the club
3. Any member who is physically handicapped or has a health problem.

E.C.F.S.C.: No report

CAMP COMMITTEE: A. Eckel reported that the camp was in good shape and everything was in order.

CONSERVATION COMMITTEE: No report

LAND COMMITTEE: Report to be made under unfinished business.

UNFINISHED BUSINESS: The lease with Paul Jacobs was finalized which allows members only to hunt on

Jacob's 75 acres. This land is posted, and any member hunting on it must produce a membership card if required. Liability insurance was taken to cover members only for this purpose.

The real estate agent was contacted regarding the 41 acre Bemus property across the road and we made an offer of \$10,000. The deal, at the present time, is off since they want at least \$15,000. It was reported that the Lacus property, which is approx. 40-80 acres, is for sale, and it is rumored that they are asking about \$10,000. This property has much locust and black cherry trees, and isn't much good for timber but is a good wildlife refuge.

NEW BUSINESS: M. Kobel, chairman and A. Grupp were appointed to the nominating committee. K. Moser made a motion, seconded by M. Wannamaker that A. Grupp purchase Stand & Alex a

Christmas gift for \$30 total, carried. After much discussion as to the raffle and outing for next year, whether it be handled the same way or not, K. Moser made a motion, seconded by M. Kobel that this decision be left up to the ^{Raffle}~~nominating~~ committee, carried.

GOOD & WELFARE: It was reported that only members in good standing would be allowed the use of a bunk in the cabin the first week of hunting season. The members were urged to sign up for the \$10. per day meals to be supplied at camp.

All members at the cabin are expected to help in the maintenance and cleanup during their stay.

A. Grupp made a motion to adjourn, seconded by G. Feidman, carried.

Respectfully submitted,

Donald C. Kelker

Secretary

DCK: jek

CC: President

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BUFFALO ROD & GUN CLUB

SEPTEMBER 17, 1987

The meeting opened with Pres. A. Albert presiding.

ROLL CALL OF OFFICERS: Absent - A. Puma

The minutes of the previous meeting were read and a motion was made by A. Eckel, seconded by M. Kobel to accept them as read, carried.

TREASURER'S REPORT: \$2,786.27 - W. Nelson made a motion, seconded by D. Giles to accept the Treasurer's report as read, carried.

BILLS: W. Nelson made a motion, seconded by D. Giles to pay the bills, carried.

771.88 - School taxes
67.00 - Niagara Mohawk
20.00 - Refreshments - Mrs. Smith
31.81 - Picnic table - A. Eckel
31.90 - Postage - R. Zaverl

Dawn Zilbauer, daughter of D. Zilbauer, sent a note of appreciation to the club thanking them for sending her to Camp Rushford this summer. Also, a thank you note was sent to the club from Mr. & Mrs. D. Zilbauer.

NEW MEMBERS: Joe Pawlowski - Sponsors by J. Pyzynski & A. Hajdaj
Richard Stoll - sponsored by D. Giles & A. Albert

CAMP COMMITTEE: A. Eckel reported that the shelter was finished.

The florescent fixture and light was put in. The last weekend in September was set for work days at camp, at which time the trap house would be fixed and wood is to be cut. It was reported that the cabin was broken into and vandalized. A tackle box, trophies, beer tap are among the known missing items. The lock on the tool shed was also cut.

CONSERVATION COMMITTEE: A. Grupp reported that approximately 50 more acres around camp are posted to hunting.

SHOOTING COMMITTEE: W. Nelson reported that the scheduled September shoot was ~~played~~ delayed until a future date.

LAND COMMITTEE: A. Grupp has not seen Mrs. Gullen regarding the sale of his land.

FUND RAISING COMMITTEE: K. Moser thanked all the chairmen of the various committees and their workers who made the picnic a success. About 113 people attended. The raffle

results - \$4,225.00 Gross
 - 1,760.62 Expenses
 - 2,464.38 Profit

UNFINISHED BUSINESS: The parts for the log splitter are still being gathered. An engine, reservoir and pump are still needed. It is getting to the point where it can be welded. D. Smith is to report next meeting, all of the shortages.

NEW BUSINESS: H. Becker made a motion, seconded by D. Smith to appropriate \$150. for the work party September 26, and 27th, carried.

GOOD & WELFARE: Pictures showing the ~~shot-up~~ shot-up trees around the cabin were passed around, and it was suggested that anyone caught shooting that close to the cabin should be dropped from the membership. It was reported that Home Realty had about 42 acres of property in the camp area for sale for \$22,000. A. Grupp and the land committee are to check this out. Suggestions for the 1988 raffle are to be made at the next meeting.

A. Grupp made a motion to adjourn, seconded by M. Kobel, carried.
Respectfully submitted,

Donald C. Kelker

Secretary

DCK:JEK

BUFFALO ROD & GUN CLUB

JUNE 18, 1987

The meeting opened with Pres. A. Albert presiding.

ROLL CALL OF OFFICERS: Absent: A. Puma

The minutes of the previous meeting were read, and a motion was made by D. Smith to accept them as read, seconded by D. Giles, carried.

TREASURER'S REPORT: Balance on hand \$2791.60 - A. Eckel made a motion, seconded by M. Kobel to accept the Treasurer's report as read, carried.

BILLS: \$253.12 - Materials and refreshment for work day - A. Eckel
\$7.71 - Screw gun bits - A. Albert
20.00 - Refreshments - Mrs. Smith

E.C.F.S.C.: no report

CAMP COMMITTEE: At the June work day, the shelter was finished, the trap house was fixed, the wiring under the new shelter was finished, the mud room was cleaned out and the concrete floor put in.

CONSERVATION COMMITTEE: No report

SHOOTING COMMITTEE: W. Nelson set the fall shoot to coincide with the work party that will be held the last weekend of September; Saturday to be a work day and Sunday the shoot.

LAND COMMITTEE: A. Grupp is to contact Mrs. Gullen who may be interested in selling some land.

FUND RAISING: A. Albert reported that \$1,930.00 was the ticket return for April and May. All tickets are to be returned if not sold. In July, those holding unsold tickets would be contacted.

UNFINISHED BUSINESS: D. Smith submitted the plans for a log splitter. All material is available except the beam.

NEW BUSINESS: Donations are requested for the raffles to be held at camp. A. Eckel donated a jewelry box. M. Weesner made a motion, seconded by J. Green to appropriate \$550.00 for the picnic, carried. About 100 people are expected at the picnic.

GOOD & WELFARE: A. Eckel reported that Jr's. daughter was graduating, and asked for donations for a gift.

A. Grupp made a motion to adjourn, seconded by M. Kobel, carried.

Respectfully submitted,

Donald C. Kelker

Secretary

DCK:jek

BUFFALO ROD & GUN CLUB

MAY 21, 1987

The meeting opened with Pres. A. Albert presiding.

ROLL CALL OF OFFICERS: All present.

The minutes of the previous meeting were read and A. Eckel made a motion, seconded by G. Feldman to accept them as read, carried.

TREASURER'S REPORT: Balance \$1,682.32 W. Nelson made a motion, seconded by D. Zilbauer to accept the Treasurer's report as read, carried.

Bills: \$20.00 - Refreshments for meeting - Mrs. Smith
76.37 - Refreshments for work party - K. Moser
163.35 - Bldg. materials - A. Eckel

D. Zilbauer made a motion, seconded by W. Nelson to pay the bills, carried.

SECRETARY'S REPORT: E. Gajewski was dropped from the membership rolls since he was delinquent for more than three months and duly notified. D. Smith made a sportsmans-like gesture and paid \$10. on Bill Burgard's dues, to keep him from being dropped from the membership.

E.C.F.S.C.: No report

GAME COMMITTEE: A. Eckel reported that the May work party was a productive one with a good bunch of workers and at this time were given a hand of applause for a job well done. The floors in the cabin were fixed, gravel was shoveled on the road, the grounds were cleaned, the roof was patched and the chimney was fixed. June 6 and 7 were set for the next work party. Some of the projects to be considered for this work weekend are:

- to fix and replace rotted floor beams
- repair the trap house

SHOOTING COMMITTEE: W. Nelson reported that at the present time
there are no plans for a fall shoot.

FUND RAISING: Pres. A. Albert reported that there were a few
available tickets left for the raffle and picnic
outing. He also indicated the need for donations to be raffled
off at the camp.

UNFINISHED BUSINESS: G. Feldman donated a pump for the log splitter.
It was **suggested** to use the gravel for the
mud room floor.

NEW BUSINESS: The membership was advised to keep off of the pipe
line. The camp chairman is to be contacted before
any trees are cut at camp since someone has been cutting unmarked
trees.

A. Puma made a motion to adjourn, seconded by D. Smith,
carried.

Respectfully submitted,

Donald C. Kelker

Secretary

DCK: jek

CC: President

BUFFALO ROD & GUN CLUB

APRIL 16, 1967

The meeting opened with Pres. A. Albert presiding.

ROLL CALL OF OFFICERS: All present.

The minutes of the previous meeting were read, and a motion was made by A. Eckel, seconded by M. Kobel, to accept them as read, carried.

TREASURER'S REPORT: Balance on hand - \$857.11

A. Eckel made a motion, seconded by M. Kobel to accept the Treasurer's report as read, carried.

BILLS: \$25.00 - Refreshment - E. Kobel
15.06 - Outdoor light and postage - A. Albert
33.00 - Increase in insurance coverage to ~~3000,000~~^{300,000} for
bodily injury and 100,000 for property - G. Kohl
31.02 - Postage (Feb.-April)- D. Zaverl

A. Grupp made a motion, seconded by W. Nelson that the bills be paid, carried.

T.C.F.S.C.: A. Puma reported that there was much discussion about legislation and the up-coming conservation bills. The legislation report would be sent to the participating sports clubs for \$15. per year. There was also discussion on ducks and fish.

CAMP COMMITTEE: A. Eckel reported that step ladders are required for the work party. A raffle box was built, paint is needed and a timer for the furnace was purchased. 20 ga. galvanized flat sheet for the roof is approx. \$200. for 700 sq. ft. and 22 ga. corrugated is \$330. After some discussion, it was decided to screw the sheet on the roof rather than nail it and enough screws to cover 700 sq. ft. are required. Al reported that he had \$600 in the building fund, and needs \$150. more.

CONSERVATION COMMITTEE: A. Grupp reported that about half of the trees planted were lost. There were 4 different kinds planted, and they are all different heights.

FUND RAISING: A big crowd is expected at the stag. A refrigerator is required at camp for the beer. Picnic tables are also required. W. Nelson is to be in charge of the raffle at camp. Speakers are to be donated for the bull horns to be used at the stag.

UNFINISHED BUSINESS: M. Wanamaker is starting to gather all of the donated material for the log splitter.

NEW BUSINESS: A. Grupp made a motion, seconded by G. Feldman to appropriate \$150. to the building fund, carried.

GOOD & WELFARE: The membership was urged to return unsold tickets, since only 400 were printed, some members needed more.

A. Grupp made a motion to adjourn, seconded by A. Puma, carried.

Respectfully submitted,

Donald C. Kelker

Secretary

DCK:jek

CC: President

BUFFALO ROD & GUN CLUB

MARCH 19, 1987

The meeting opened with Pres. A. Albert presiding.

ROLL CALL OF OFFICERS: All present

The minutes of the previous meeting were read, and a motion was made by M. Wanamaker, seconded by M. Kobel to accept them as read, carried.

TREASURER'S REPORT: Balance \$1,382.98 D. Grupp made a motion, seconded by V. Nelson to accept the Treasurer's report as read, carried.

Bills: \$52.27 - Printing of raffle tickets - A. Albert
20.00 - Refreshments - Mrs. Smith
~~52.58~~ - Niagara Mohawk
56.88

M. Kobel made a motion, seconded by D. Grupp to pay the bills, carried.

Conservation officer, Harry Keppner was introduced to the membership. After the meeting he showed an excellent movie on turkeys and gave a short talk on them.

SECRETARY'S REPORT: Scott Henry was dropped from the membership rolls since he was delinquent for more than 3 months, and duly notified.

NEW MEMBERS: Henry Becker sponsored by M. Wanamaker

E.C.F.S.C.: No report - A. Puma reported that both he and K. Moser would attend the next meeting or be subject to a fine.

THEORY OF FUNCTIONS

CHAPTER 1

Let $f(z)$ be a function of a complex variable $z = x + iy$. Then we define

$$u(x, y) = \text{Re} f(z) \quad \text{and} \quad v(x, y) = \text{Im} f(z)$$

where u and v are real-valued functions of two real variables x and y .

If $f(z)$ is analytic in a domain D , then u and v satisfy the Cauchy-Riemann equations

$$u_x = v_y \quad \text{and} \quad u_y = -v_x$$

where $u_x = \frac{\partial u}{\partial x}$, $u_y = \frac{\partial u}{\partial y}$, $v_x = \frac{\partial v}{\partial x}$, and $v_y = \frac{\partial v}{\partial y}$.

Conversely, if u and v satisfy these equations

$$u_x = v_y \quad \text{and} \quad u_y = -v_x$$

$$\text{then } f(z) = u(x, y) + iv(x, y) \text{ is analytic in } D.$$

Moreover, if $f(z)$ is analytic in a domain D , then $f(z)$ is differentiable at every point in D and

$$f'(z) = u_x + iv_x$$

where $u_x = \frac{\partial u}{\partial x}$ and $v_x = \frac{\partial v}{\partial x}$. Similarly, $f'(z) = v_y - iv_x$.

It follows that if $f(z)$ is analytic in a domain D , then $f(z)$ is harmonic in D .

Conversely, if u and v are harmonic functions in a domain D and satisfy the Cauchy-Riemann equations

$$u_x = v_y \quad \text{and} \quad u_y = -v_x$$

then $f(z) = u(x, y) + iv(x, y)$ is analytic in D .

Thus, the Cauchy-Riemann equations are necessary and sufficient for a function $f(z) = u(x, y) + iv(x, y)$ to be analytic in a domain D .

If $f(z)$ is analytic in a domain D , then $f(z)$ is infinitely differentiable in D and

$$f'(z) = u_x + iv_x = v_y - iv_x$$

where $u_x = \frac{\partial u}{\partial x}$, $u_y = \frac{\partial u}{\partial y}$, $v_x = \frac{\partial v}{\partial x}$, and $v_y = \frac{\partial v}{\partial y}$.

BUFFALO ROD & GUN CLUB

MARCH 19, 1987

CAMP COMMITTEE: A. Grupp reported that the stoves outside the cabin were covered. A. Eckel reported that to build a 20 X 30 shelter with a galvanized roof, the material cost would be approximately \$990. and about \$625. for a 20 X 20 shelter with weffer board and shingle roof. A work party will be held the weekend of 5/16 & 5/17 with the club supplying the beer and lunch. The bunks and kitchen floor will be painted.

CONSERVATION COMMITTEE: A. Grupp reported that the winter snows had knocked some of the trees down.

SHOOTING COMMITTEE: W. Nelson reported that there would not be a Spring shoot.

FUND RAISING COMMITTEE: The tickets for the upcoming raffle were distributed. Donations were requested for extra prizes that could be raffled at the camp outing on the day of the raffle. P. Gervase donated a bottle of J. Walkers Scotch. It was estimated that the 4 guns and bow would cost the club approximately \$1,000.

UNFINISHED BUSINESS: M. Wanamaker reported that an I beam is required for the splitter.

NEW BUSINESS: H. Moser made a motion, seconded by A. Grupp that the club appropriate \$600. to the building fund, carried.

A. Grupp made a motion to adjourn, seconded by M. Weesner, carried.

Respectfully submitted,

Donald C. Kelker
Secretary

DCK:JEK

CC: President

ARTICLE

The first part of the paper is devoted to a general survey of the

subject, and to a discussion of the various theories which have

been advanced to explain the phenomena under consideration.

The second part is devoted to a detailed study of the

experimental results obtained by various investigators.

The third part is devoted to a discussion of the

theoretical results obtained by various investigators.

The fourth part is devoted to a discussion of the

conclusions of the present paper.

The author wishes to express his indebtedness to

Mr. J. H. Poincaré

for his valuable criticisms and suggestions.

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BUFFALO ROD AND GUN CLUB

FEB. 19, 1987

The meeting opened with Pres. A. Albert presiding.

ROLL CALL OF OFFICERS: All present

The minutes of the previous meeting were read, and a motion was made by M. Kobel, seconded by F. Puma to accept them as read, carried.

TREASURER'S REPORT: Balance \$1,299.04 M. Kobel made a motion, seconded by F. Puma to accept the Treasurer's report as read, carried.

BILLS: \$50.00 - Snowplewing at camp - K. Moser
20.00 - Refreshments - Mrs. Smith

W. Nelson made a motion, seconded by D. Zilbauer to pay the bills, carried.

SECRETARY'S REPORT: S. Dascomb and K. Eberle were dropped from the membership rolls since they were delinquent for more than 3 months and duly notified.

E.C.F.S.C.: No report

CAMP COMMITTEE: It was reported that the camp was clean and there was no bottled gas left. The membership once again was urged to make sure that the furnace was shut off when leaving the cabin.

CONSERVATION COMMITTEE: It was reported that there was much deer signs all over the camp area.

SHOOTING COMMITTEE: W. Nelson reported that all that attended the recent fox hunt, despite the cold weather, had a good time.

UNITED STATES DISTRICT COURT

WEST VIRGINIA

The undersigned, Clerk of the Court, do hereby certify that the following is a true and correct copy of the original as the same appears in the files of this Court.

Witness my hand and the seal of this Court at Charleston, West Virginia, this 1st day of _____, 19__.

Clerk of the Court

Deputy Clerk

Deputy Clerk

Deputy Clerk

Deputy Clerk

Deputy Clerk

Deputy Clerk

Deputy Clerk

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Deputy Clerk

BUFFALO ROD & GUN CLUBFEB. 19, 1987

FUND RAISING COMMITTEE: Pres. A. Albert suggested that the next raffle proceeds be put toward a shelter addition. His idea is to raffle off 5 guns and the purchaser of the ticket would be entitled, in addition to a chance on the guns, admission to a picnic outing at camp which would include food and beverage. The raffle would be limited to 400 tickets at a price of approximately \$10.00 each.

UNFINISHED BUSINESS: It was announced that 2 electric stoves donated by T. Hajaj were dropped off at camp by T. Hajaj and J. Pyszynski. The stoves at the present time were outdoors and needed some cleaning. There was much discussion as to the value of the stoves and possibly the used stove that was recommended by K. Moser should be purchased for \$75. M. Wanamaker reported the progress of the log splitter, he has an axle and 8 HP motor and among other things, needs an I beam. Pres. Albert offered to donate couplers, pump, 4-way valve and hoses.

NEW BUSINESS: W. Nelson made a motion, seconded by R. Wanamaker to purchase the used electric range for \$75., motion defeated. K. Moser suggested that we do away with the furnace, and replace it with a wood-burning stove. It was suggested that a wood burning stove could be connected in line with the existing furnace in order to use the fan and blowers. Since the furnace is left on many time when members leave the cabin, it was suggested that a warning light be connected into the furnace to indicate that it was on. D. Zilbauer is to check into the types and prices of a wood burning stove. F. Puma

EXPERIMENTAL PROCEDURE

1. INTRODUCTION

The purpose of this experiment is to determine the effect of temperature on the rate of reaction between hydrogen peroxide and potassium iodide.

The reaction between hydrogen peroxide and potassium iodide is exothermic. The rate of reaction is measured by the volume of oxygen gas evolved over a fixed period of time. The temperature of the reaction mixture is varied and the effect on the rate of reaction is observed.

2. APPARATUS AND REAGENTS

The apparatus used in this experiment consists of a conical flask, a delivery tube, a gas syringe, and a water trough. The reagents used are hydrogen peroxide solution and potassium iodide solution.

The hydrogen peroxide solution is prepared by diluting 100 ml of 30% hydrogen peroxide with distilled water to make 200 ml of 15% solution. The potassium iodide solution is prepared by dissolving 10 g of potassium iodide in 100 ml of distilled water.

The reaction is carried out in a conical flask. The potassium iodide solution is added to the flask first, followed by the hydrogen peroxide solution. The flask is then placed in a water trough and the delivery tube is inserted into a gas syringe.

The volume of oxygen gas evolved is measured by the displacement of water in the gas syringe. The time taken for a certain volume of oxygen to be evolved is recorded. This is repeated for each temperature.

The experiment is repeated for each temperature. The results are recorded in a table. The rate of reaction is calculated from the volume of oxygen evolved and the time taken.

The rate of reaction is found to increase with increasing temperature. This is due to the fact that the molecules have more energy and are able to overcome the activation energy barrier more easily.

The activation energy of the reaction can be determined from a plot of the logarithm of the rate constant against the inverse of the absolute temperature. The slope of the line is equal to the negative of the activation energy.

The activation energy of the reaction is found to be 50 kJ mol⁻¹. This is a relatively high activation energy, which explains why the reaction is slow at room temperature.

The experiment shows that the rate of reaction is highly sensitive to temperature. A small change in temperature can lead to a large change in the rate of reaction.

The results of this experiment are in good agreement with the Arrhenius equation. This equation describes the relationship between the rate constant and the activation energy of a reaction.

BUFFALO ROD & GUN CLUB

FEB. 19, 1987

NEW BUSINESS: (continued)

made a motion, seconded by A. Grupp that the membership purchase a 1/4 page ad for \$15. for the E.C.F.S.C. banquet, carried. W. Nelson made a motion, seconded by J. Pyszynski that the club sponsor a raffle for 5 guns which would also entitle the purchaser of the ticket to a picnic to be held at camp which would include free food and beverages and that the price of the ticket be \$10. and limited to 400 tickets, carried.

GOOD & WELFARE: A. Grupp complimented the cook at the fox hunt.

A. Grupp made a motion to adjourn, seconded by F. Puma, carried.

Respectfully submitted,

Donald C. Kelker

Secretary

DCK:jek

CC: President

BUFFALO HOLE & GULF CLUB

1-15-87

The meeting opened with Pres. A. Albert presiding.

ROLL CALL OF OFFICERS: All present

The ~~minutes~~ minutes of the previous meeting were read, and a motion was made by F. Puma, seconded by M. Kobel to accept them as read, carried.

TREASURER'S REPORT: Balance \$1,734.09 M. Kobel made a motion, seconded by F. Puma to accept the Treasurer's report as read, carried.

BILLS: \$62.03 - Niagara Mohawk
461.42 - County Taxes
50.60 - Postage - D. Zaverl
30.00 - Dues, E.C.F.S.C.
~~36.00~~ ^{Return 1987} - Fox hunt

M. Kobel made a motion, seconded by ^{G.}Feldman to pay the bills, carried.

NEW MEMBERS: Anthony Hajdaj and Steve Gulczewski both sponsored by J. Pyszynski and Mr ^{G.}Feldman

E.C.F.S.C.: No report

CAMP COMMITTEE: No report

CONSERVATION COMMITTEE: A. Grupp reported that at least 3 pine trees were cut and stolen from camp.

SHOOTING COMMITTEE: The membership was reminded of the upcoming Fox hunt in February. A motion was made and passed to appropriate 36.00 for fox hunt refreshments.

UNFINISHED BUSINESS: Three members submitted names for the summer camp at Camp Rushford - D. Zilbauer's daughter (12 years old), F. Puma's daughter (13 years old), E. Gajewski's daughter (13 years old). F. Puma's daughter's name was omitted from

the list after she was contacted regarding attending the camp.
D. Lilbauer's daughter was submitted as the candidate to represent
the Buffalo Rod & Gun Club to Camp Rushford this summer.

NEW BUSINESS: Pres. Albert appointed members to the committees
for 1987. Past Pres. M. Kobel did his usual
outstanding job of installing the 1987 officers of the Buffalo
Rod and Gun Club. K. Moser reported that the club could purchase
a 15 year old stove in good working condition for \$75.00. New
member, T. Hajdaj offered to donate a stove in working condition
to the club. G. Kohl reported that our insurance coverage was
increased.

GOOD & WELFARE: None

A. Grupp made a motion, seconded by D. Smith to adjourn,
carried.

Respectfully submitted,

Donald C. Kelker

Secretary

DCK:jek

CC: President