

# The Nuclear Research Times

DEEP RIVER, ONTARIO – Fall 1945

2 cents

## THE SOUND OF NEUTRONS

### Wealth of Historic Interest Surrounds Site of Deep River

A GOOD PROPORTION OF HOUSES PLANNED HAVE NOW BEEN ERECTED

A SIX-ROOM SCHOOLHOUSE IS UNDER CONSTRUCTION

USUAL SERVICES OF MODERN COMMUNITY HAVE BEEN PROVIDED

Although it had been known for months that something extremely important and very “hush, hush” was going on in the area known broadly and somewhat vaguely as Deep River, it was not until the echoes from two or three atomic bombs dropped on the Japanese cities last summer had reverberated around the world that some authentic news of the plant became general knowledge.

Erection of a large plant in an isolated and sparsely populated section of country involves also the creation of a town.

The newest community on the Upper Ottawa covering an area of two square miles, and a mere stone’s throw from, Highway 17,



### The Sound of Neutrons

© 2019

A Musical in Two Acts

Written and directed by Phyllis Heeney

Produced by Sandra Celovsky



March 12-13 & 26-27-28, 2020

has hereafter been known in the district simply as “The Townsite”, but on a recent visit The Standard-Observer was informed that the name “Deep River” has been adopted officially.

Wartime houses were transported from Nobel, Ont., Arvida, Que., and other places. In recent days, the original number has been increased, while there are also houses of a more permanent type of construction.

In planning the town, care was taken to preserve as far as possible the natural characteristics of the site, which is one that is hard to surpass in beauty. The natural contours of the ground were disturbed as little as possible, and “Woodman spare that tree” appears to have been the theme song of the planners.

A large hotel now under construction is partially complete and is already occupied by members of the staff.

Education of the children of the community is naturally a matter of utmost concern, and erection of a six-room school is underway with the prospect of having it open for use of the primary grades with the New Year.

(The Pembroke Standard-Observer, Thurs Dec 18, 1945)

Enjoy The Sound of Neutrons!

DELIVERING THE  
**SCIENCE OF TOMORROW,**  
TODAY.

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Laboratoires Nucléaires Canadiens

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PRODUCTION TEAM	
Director	Phyllis Heeney
Producer	Sandra Celovsky
Musical Director	Gordon Tapp
Vocal Directors	Gordon Burton, Nicole Lebel
Choreographers	Lesley Levinski, Kristen Glowa, Andrea Geiger, Bailey Waite, Patti Kinghorn, Christine Armstrong
Stage Manager	Christine Gallagher assisted by Susan McBride, Alex Wray, Joanne Bailey
Stage Crew	Jesse Rhodes, Eppo Van Houten, Samaya Chantrell, Matthew Schaubel, Sydney Beatty
Lighting Design	Peter Angell
Set Design	Pat Playford
Construction	Phyllis Heeney, George Ginn, May Zhang, Bob Walker, Eppo Van Houten, Angela Meyhew, Clint Mayhew, Paul Zdrzil, Bob Montague, Anne Davies, Sam Bessey, Jesse Rhodes, Terry Frasso, Austin Frasso, Steve Butler, Paul Chiasson
Painters	Pat Playford, John Playford, Rita Montgomery, Anne Davies
Props	Mary ter Huurne, assisted by Hannah Williams
Costumes	Lori Gilbert, assisted by Bailey Waite, and seamstresses Dale Lade, Suzanne Lortie, Jane Barkley, Elizabeth Jones, Candace Graham, Natalie Philippi, Amanda D'Ornellas, Anne Davies, Kathy Frasso
Hair	Jessica Logan assisted by Jennifer Young
Makeup	Shonna Lynn, assisted by Lexi Rivett, Cora Clark, Jonathon Steele
Logo Design	Jeremy Whitlock
Front of House	Jess Pawlik assisted by Carol Grant, Marion Thompson, Dale Pennock, Dawn Marois, Heather Gutzman, Muriel Houde, Denis Houde, Jenn Valeri, Victoria Belanger, Catherine Colotelo, Abby Bakewell, Wendy Redford, Bonnie Laframboise
Backstage Helpers	Bethany McMahan, Juliet Luiz, Jeffrey Baschuk
Craft Services	Shirley Miller
Sound	Terry Mask, assisted by Andrew Bing
Photographer	Ken Lundie
Advertising	Sara Bessey
Ad Sales	Bob Montague
Tickets	Sandra Celovsky, Anne Davies
Treasurer	Anne Davies
Website	Jeremy Whitlock
Program	Pat Playford

### Swing of Pendulum Revives Activity

The swing of the pendulum has brought back to the people of the Deep River district, a measure of activity which has not been seen in that area since lumber was king on the Ottawa.

In those far distant days the country was full of lumbermen and residents of the district owed their livelihood to that industry, either working in the lumber camps or on the river or being engaged transporting supplies to the camps. As the pine was cut off and lumbering decreased, employment dwindled and with farms ill-suited to the production of crops, the area west of Chalk River became in a measure a forgotten land.

Construction of the Trans-Canada Highway helped to improve conditions, but it has only been with the recent developments at Deep River that the old activity has returned and with the further proposed power development at Rapides des Joachims, it is just possible that this part of Renfrew County may really come into its own.

*(The Pembroke Standard-Observer, Thurs Dec 18, 1945)*

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 THE OAT CEREAL THAT NEEDS NO COOKING!

### SHOW QUIZ

#### Deep River Is Official Name of Newest Town

With official adoption of Deep River as the name of the new town which has sprung up on the Upper Ottawa, a post office is being established in the town and it will be opened on December 17<sup>th</sup>. For the present, the post office will be in temporary quarters, but it will be moved when a permanent building is completed.

Up to the present, mail for the townsite has gone to Chalk River R.R. 1, an arrangement which left something to be desired.

*(The Pembroke Standard-Observer, Thurs Dec 18, 1945)*



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- Which character is played by the real Great Granddaughter of Gaston and Rejeanne Houde?
- What technical inaccuracy about ZEEP is included in the script?
- How many times is "Okay. Let's go" used in the play?
- Who are the four actual Francophone actors in the show?
- Which cast member works as a nuclear physicist in real life?
- How many of the actors are based on and named after real people.
- Which social frames and biases are NOT exposed by example through *The Sound of Neutrons*. Discrimination/judgement on:
  - Gender
  - Race
  - Age
  - Social class
  - Family status or
  - All of the above.
- The real Bruno Pontecorvo was nicknamed after which handsome movie star:
  - Rudolf Vanlentino
  - Clark Gable
  - Ramon Novarro or
  - Sean Connery.
- Was ZEEP the second reactor to go critical (start-up) outside the USA?
- What day did ZEEP first go critical (start-up)?
- What were the first homes in the townsite called?
- Yes or no: the real Bruno Pontecorvo worked with Marie Curie.
- Who was the first woman to work at the plant?

### ANSWERS TO QUIZ

- Sybill (Avery Cochrane)
- ZEEP's core was made of aluminum not Zirconium. NRX and NRU had loop pressure tubes that were lined with Zirconium. I just liked the word.
- Ten
- Jacques Vincelette (Gaston), Vickie Charbonneau (Marianne), Nicole Lebel (MJ), Clementine Vincelette (Youngest kid on stage)
- Rhiannon Monckton (Margaret)
- Twelve - Marianne, Bruno, Gil, Tito and Antonio Pontecorvo, Dr. Cockcroft, Rejeanne, Gaston, Dennis and Doris Houde, CD Howe, Father McEilligott.
- B- Race
- C- Ramon Novarro
- No. ZEEP was the first reactor to go critical outside the USA.
- September 2<sup>nd</sup> 1945 but they didn't know it until Sept 5<sup>th</sup> 1945, which is its official start-up date. Act 2:8 shows you how they really showed that ZEEP worked.
- War four, and war sixes. They were pre-fabricated 4-room and 6-room houses.
- No, Bruno worked with Irene Joliot-Curie (Marie Curie's daughter).
- Margaret Cook, who did the tele-typing. Her first chair was a keg of nails with a cushion on top, just like in Act 1 Scene 4.





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 to the  
 cast & crew!

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**Director's Notes:**

**THE PERFECT STORM**

I am not a playwright.

I grew up on a farm. I used to work at the NRU reactor. My husband is an avid local history buff. My father-in-law was a refugee from Czechoslovakia. My mother-in-law's maiden name was Martinovsky and my dear friend Maria Sagat was a theoretical physics professor in Bratislava before moving to Deep River with her husband. My friend Doris Lance was Gaston and Rejeanne Houde's daughter. This created the "perfect storm" for this tale.

Several years ago, Eva Gallagher suggested that I write a play for the 75th anniversary of the Town of Deep River and the start-up of the ZEEP reactor. Eva thought that Bruno Pontecorvo would be a good character in the play. She was right. In the course of researching his life, it didn't take much embellishment to make an intriguing story.

When I was hired at "the Plant" in 1988, I was one of the first



Writer and director, Phyllis Heeney is shown at the controls of the NRU reactor in this 1989 photo.

female engineers in operations. It was not easy, but it was easier for me than it was for many of the women who went before me, like Lynne Vidal (Larson), Mary Elinor Hunstman Mawson, Maria Sagat, Nancy Schmeing, Arden Okazaki and so many others.

In the summer of 2019, after two years of developing the plot

and characters, I sat in a one room cabin on the tundra near the Arctic Ocean, listening to 1940s music and tapped out this tale on my tablet. Much of this musical is based on real events, but if I told you all about it, I would have to include a spoiler alert! I hope my story of the fictional Maria Josefa (MJ) Martinovsky helps reveal some of women's struggles to create a more gender-equal workplace.

Many thanks to an awesome cast and crew who have worked since October to bring this story to life, to Gord Tapp who arranged 22 songs for 10 instruments (that's 220 musical scores!), the talented musicians who made it supercritical, all the parents who shared their kids with me for 5 months, feeding them cookies after bedtime and filling their minds with songs and science, and of course, to my husband Paul Zdrzil, who tried his best to keep my feet on the ground throughout the whole production.

Phyllis Heeney

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**Prologue:**  
OKAY, LET'S GO!

The words spoken by C.D. Howe, Minister of Munitions and Supply on August 17th, 1942 in Parliament gave approval for funding the nuclear program in Canada.

This was the beginning of the nuclear era in Canada. The rest is history... This play is not! (Well not entirely.)

The events depicted in this theatrical performance are fictional. Some of them are based on actual events but blatant disregard for historical accuracy is rampant. This performance is intended for immature audiences. Viewer enjoyment is strongly advised.

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## -IMMUNISATION COSTS NOTHING

Issued by the Ministry of Health and the Central Council for Health Education.



Lily, Dennis & Katie



Gaston and Rejeanne



Miss. Wigglebottom, C.D. Howe's secretary, Edith & Catherine



Doris, Monika, Wesley, Clémentine



Father McElligott



Margaret, Suli & Missy



The Feelgood's: Etta, Marlene, Orsana, Hazel, Benny & Sybill



The Pontecorvos: Bruno (2), Marianne, Bruno (1), Tito, Antonio & Jill



Bertha & the Moe's: Maureen, Bertha, Morag, Mona & Four Eyed



Gracie and MJ



Nate, Holly, Livy & Eugene



The Physicists: Walter, Dr. Cockcroft, Joe & James

### Vigilante Service Has Been Established

Parents at Deep River have difficulty going out for an evening's entertainment, and the girls employed with Crawley & McCracken have been organized under the supervisor of female personnel, Mrs. F. Slattery into a vigilante service.

A notice on a bulletin board announced this service, and states that the girls must be escorted to and from the ladies' dormitory by those wishing to engage their services. The girls may bring a lady friend with them for companionship with them while they are "sitting in" but cannot have a man friend with them. Lastly, the fee is 75 cents an evening, with an additional charge of 50 cents per hour after midnight.

*(The Pembroke Standard-Observer, Thurs Dec 18, 1945)*

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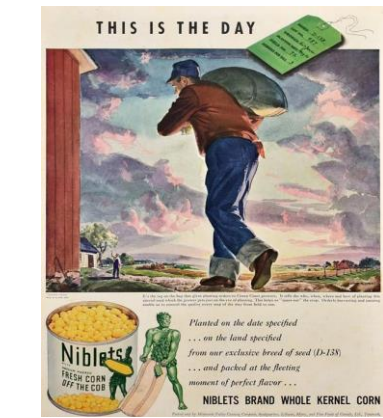




### Thank You!

The Deep River Players would like to acknowledge and thank the following individuals and organizations for their generous contributions to **The Sound of Neutrons.**

- UniTeck for the use of coveralls and lab coats
- Mackenzie Community School
- Nora Waddell
- Maria Sagat
- Nancy Schmeing
- Doris Lance
- Kathy Boyd
- Pat Hoelke
- Rob Carson
- Jenn Foley
- Susan Fraser
- Shirley Lachance
- Gerald Priestly
- Digital Copy Express



### Immense Amount of Food Required

TEN BAGS OF POTATOES  
USED DAILY IN  
CAFETERIA; 125 PIES; 250  
LOAVES OF BREAD

One is almost spellbound with the sense of activity at the townsite of Deep River, and one of the busiest spots is the cafeteria where a total of 1700 meals are served daily in the sparkingly clean dining hall which serves the workmen, staff and all those in town who are not in residence. It is run by the firm of Crawley & McCracken, and the manager of the Deep River cafeteria is J.F. Nuget, whose wife by the way was the former Miss Francis McGuire of Eganville.

An average of 500 persons eat at the dining hall morning and night, and more than 600 at noon. The meals are prompt and of excellent quality. There is a staff of 70 in the cafeteria. Large quantities of food are used each day, for the guests are all workers, many of them employed in the open air. Mr. Nugent when interviewed said that approximately 10 bags of potatoes are peeled a day; 40 pounds of butter used (they do not serve butter at the midday meal); 100 gallons of milk drunk; 125 pies baked; and 250 loaves of bread consumed.

*(The Pembroke Standard-Observer, Thurs Dec 18, 1945)*



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### Greetings From the Producer

Producing a show of this size reminds me that community is everything. It takes a tremendous amount of talent, enthusiasm and energy to bring a show to life and we are fortunate to live in a community that has all of these in abundance!

Being able to collaborate and bring to life some of the history of our town and nuclear heritage is a privilege. Every time we have reached out to the community for assistance in bringing this show to life, the response has been wonderful. The support for community arts and the impact it can have on people is evident wherever we look.

Working with the cast and crew of The Sound of Neutrons has been both an enriching and rewarding experience for me personally. I would like to thank all of you for joining us today for this telling of a small piece of the Deep River story and I invite you to reflect on your own part in Deep River's story going forward.

*Sandra Celovsky*



### Development Brings Boom to Chalk River

Developments of the past year in the Deep River section have meant a great deal to Chalk River, C.P.R. divisional point and the closest village to the Deep River townsite and the plant.

Not so many years ago Chalk River was a pretty quiet place. During the depression, railway traffic fell off greatly, and since most of the residents depend on the railway for their livelihood, the future did not look any too bright. But all that is changed now. Wartime conditions helped a lot, but in the past year there has been a real boom. Most of the materials coming in to the plant and the townsite are unloaded at Chalk River, while passenger to that point is a great deal heavier than it was not so long ago.

One of the direct results has been an increase in the staff of the railway station. The C.P.R. expects to move 1,000 people from Chalk River during the Christmas season.

Another result of the activity at Deep River has been a moderate building boom at Chalk River. Several new houses, some of them quite substantial have been erected during the past year, and it is expected that several more will be erected next summer if building materials are available.

*(The Pembroke Standard-Observer, Thurs Dec 18, 1945)*

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**ACTS and SCENES**

<b>ACT 1</b>	Scene 1	A Farm in Calabogie
	Scene 2	The ZEEP Reactor Hall
	Scene 3	Chalk River Train Station
	Scene 4	Cockcroft's Receptionist's Office <i>(A warehouse in Chalk River)</i>
	Scene 5	Outside the Townsite Post Office
	Scene 6	Chalk River Train Station
	Scene 7	Jack's House on Beach Avenue
	Scene 8	Jack's House on Beach Avenue
	Scene 9	The ZEEP Reactor Hall
	Scene 10	Jack's House on Beach Avenue

**There will be a 15-minute intermission**

<b>ACT 2</b>	Scene 1	C.D. Howe's Office and Dr. Cockcroft's house
	Scene 2	Chalk River Train Station
	Scene 3	The ZEEP Reactor Hall
	Scene 4	Outside the Townsite Post Office
	Scene 5	The ZEEP Reactor Hall
	Scene 6	Jack's House on Beach Avenue
	Scene 7	Jack's House on Beach Avenue-next evening
	Scene 8	The ZEEP Reactor Hall
	Scene 9	Chalk River Train Station
	Scene 10	Jack's House on Beach Avenue

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Early days of our pioneer ancestors are not to be compared to our modern settlement of Deep River. Here, before families move in, homes and grounds are completed, bathroom and lights installed, and freshly painted inside and out. The wartime houses are uniformly built, whether large or small, four-bedroom apartments or duplex.

For milady there is a beauty shop under construction, which will be opened soon, completely equipped with modern machines for permanent waves and other necessities to gild the lily. There will be two or three operators in charge.

Shopping at the groceteria in Deep River must prove to be a pleasure as anyone's money is as good as the next person's, and when visited by the Standard-Observer there were canned salmon on the shelves and rice (not under the counter), materials for baking, bags of potatoes, and quantities of other foodstuffs that do not often appear on the shelves of Pembroke stores. One item they had a plentiful supply of was stove polish, for most of the homes in town are heated with wood stoves.

*(The Pembroke Standard-Observer, Thurs  
Dec 18, 1945)*



**MUSICAL NUMBERS**

	Song	Vocals	Musical Credit
<b>ACT 1</b>	The Sound of Neutrons	MJ	The Sound of Music – The Sound of Music Richard Rogers & Oscar Hammerstein II
	Atom Splattin' Physicist From Calabogie	Gracie, Bertha, MJ, Victor, Rejeanne, Lynden, Edith	Boogie Woogie Bugle Boy Don Raye and Hughie Prince
	Jack Feelgood	Joe, Scientists	Caldonia by Fleece Moore
	I Have Confidence	MJ, Gracie	I Have Confidence - The Sound of Music Richard Rogers & Oscar Hammerstein II
	I'm a Waitress, You're a Physicist	Gracie, Bruno	You Are 16 Going On 17 - The Sound of Music Richard Rogers & Oscar Hammerstein II
	Uranium, Our Favourite Atom	MJ, Sybill, Hazel, Etta, Wesley, Marlene, Orson, Benny	Doe-A-Deer - The Sound of Music Richard Rogers & Oscar Hammerstein II
	It Takes U to Tango	Joe, Eugene, Scientists	It Takes Two to Tango Al Hoffman and Dick Manning
	Hallelujah, I Just Love Him So	Eugene	Hallelujah, I Just Love Him So Ray Charles
	Chalk, Chalk, Chalk River	Margaret, Missy, Wives	Choo Choo Ch'Boogie Vaughn Horton, Denver Darling and Milt Gabler
	ZEEP Reactor	Sybill, Etta, Maureen, Dr. Cockcroft and Cast	Chitty Chitty Bang Bang Robert B. Sherman and Richard M. Sherman
<b>ACT 2</b>	But Now I See You	Marianne	Why Don't You Do Right? by 'Kansas Joe' McCoy 635-5789 Eddie Floyd and Steve Cropper
	U-R-A-N-I-U-M	Dr. Cockcroft, Scientists	There Ain't Nobody Here But Us Chickens Alex Kramer and Joan Whitney
	There Ain't Nobody Here But Us Cleaners	Etta, Maureen, Kids	Satisfaction Mick Jagger and Keith Richards
	I Can't Get No Chain Reaction	Leonard, Scientists, Kids	Chitty Chitty Bang Bang Robert B. Sherman and Richard M. Sherman
	ZEEP Reactor (Reprise)	MJ, Gracie, Bertha, Kids	What a Wonderful World Bob Thiele (as George Douglas) and George David Weiss
	What a Wonderful Place	Jack, MJ	The Lonely Goatherd – The Sound of Music Richard Rogers & Oscar Hammerstein II
	The Lonely Loonherd	Kids	Supercalifragilisticexpialadocious - Mary Poppins Robert B. Sherman and Richard M. Sherman
	Supercritical Atomic Sustained Chain Reaction	MJ, C.D. Howe, Jack, and Cast	Edelweiss - The Sound of Music Richard Rogers & Oscar Hammerstein II
	White Pine Trees	Kids and Adults	Shake by Sam Cooke
	Deep River	Cast	



**THOMAS E. ROCHE**

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		CAST	
MJ	Nicole Lebel	Marlene Feelgood	Scarlytte Merrill
Gracie	Jodie Primeau	Benny Feelgood	Quinn McMahon
Bertha	Ash Cluff	Orsanna Feelgood	Rebecca Carson
Eugene	Angela Mayhew	Hazel Feelgood	Natalia Baschuk
Miss Wigglebottom	Kay Hunt	Maureen	Brooklyn Carson
Marianne Pontecorvo	Vicky Charbonneau	Mona	Kya Malcolm
Margaret	Rhiannon Monckton	Morag/Police1	Alison Chiasson
Missy/Police 2	Loralie Cochrane	Four-Eyed Moe	Isaac Lebel
Edith/Gloria	Jennifer Young	Monika	Chloe Simms
Flo	Janice Breckon	Tito Pontecorvo	Austin Frasso
Rejeanne Houde	Gabrielle Psoika	Jill Pontecorvo	Ivy McNeely
Police 2/Wife	Holly Rabishaw	Antonio Pontecorvo	Carter Jarbo
C.D. Howe's Secretary	Tracy Echlin	Doris Houde	Lyric Croteau
Jack Feelgood	Gord Burton	Dennis Houde	Trenton Cluff
Bruno Pontecorvo (wk 1)	Sam Bessey	Victor	Naid Khumsa-Ang
Bruno Pontecorvo (wk2)	Troy Wilson	James	Jane Woodcroft
Joe	Bob Walker	Suli	Suli Adams
Leonard	Jonathon Steele	Olivia	Olivia Berube
Walter	Lynne Blimkie	Catherine	Cathy Fisher
Dr. Cockcroft	Ike Dimayuga	Clémentine	Clémentine Vincelette
Gaston Houde	Jacques Vincelette	Lily	Lily Woodcroft
C.D. Howe	Greg Merrill	Katie	Katie Carson
Father McElligott	Paul Chiasson	Dave Cox (Former VP CNL Operations)	Played by himself
Etta Feelgood	Lydia Dillenbeck	Zeep the dog	Ruby Fraser
Sybill Feelgood	Avery Cochrane	Radio Announcer	Terry Mask
Wesley Feelgood	Riley Mayhew		

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MUSICIANS	
Gordon Tapp	Arranger, Director, Trumpet
Susan Linton	Flute
Ted Clifford	Clarinet, Alto Sax
Dale Tapp	Alto Sax
Ilena MacDonald	Baritone Sax, Alto Sax
Orvil Dillenbeck	Trombone
Darlene TerMarsch	Keyboard
Ray Heney	Bass Guitar
Malcolm Griffiths	Drums



## 1. The Sound of Neutrons

(To the tune of *The Sound of Music*  
written by Richard Rogers and Oscar Hammerstein II)

Chalk River's alive with the Sound of Neutrons  
With sounds they will make within a year.  
The reactor will hum with the Sound of Neutrons  
It will work, I have no fear.  
I'll work at the first pile to go critical outside the U.S.  
I'll watch the first chain reaction  
I'll wear my prettiest dress.  
I'm sure I can help, I know I can, I am able.  
I'll split uranium, Into half the periodic table.  
I'll work at the pile, I'll give it all my heart.  
I know I'll get hired 'cause I'm really smart.  
I will make it work; I don't have to worry.  
I'll be just like Madame Curie.

## 6. Uranium our Favourite Atom

(To the tune of *Do-Re-Me* from The Sound of Music,  
written by Richard Rogers and Oscar Hammerstein II)

Let's start at the very beginning  
A very good place to start.  
When you read, you begin with A B C  
With a pile you begin with uranium. Uranium.  
Uranium. Our compound "x" just happens to be uranium.  
Uranium. Uranium and heavy water.  
Uranium our favourite atom,  
Atomic number 92  
Plutonium a daughter product,  
It's an atom that is new.  
Deuterium - heavy hydrogen  
Add oxygen and you get  
Heavy water, our moderator,  
And zirconium lines the core.  
If you pay attention and listen  
You will understand nuclear fission.



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## 2. Atom Splattin' Physicist from Calabogie

(To the tune of *Boogie Woogie Bugle Boy*  
written by Don Raye and Hughie Prince)

She was a famous physicist from Slovakia.  
She was bright with the best idea.  
She was a prof in a big school.  
She'd make the other folks look like fools.  
Everyone around, just wait and see  
She's the atom splattin' physicist from Calabogie  
You think that they won't hire you 'cause you're from the sticks,  
But we know you can make a pile do tricks.  
They are gonna understand  
And hire you 'cause you're the best in the land.  
Everyone around, just wait and see  
She's the atom splattin' physicist from Calabogie  
A slap, a smack, a skiddle-lee-abba splatt  
The chain reaction goes on. In boogie rhythm.  
It's not gonna work unless MJ is workin' with 'em.  
Everyone around, just wait and see  
She's the atom splattin' physicist from Calabogie.  
I know that I can do it, I have drive.  
I've wanted to do it since I was five.  
I'll work hard, sort it out.  
I'll split the atom, just like guttin' a trout.

## 7. It Takes U to Tango

(To the tune of *It Takes Two to Tango*  
written by Al Hoffman and Dick Manning)

It takes U to tango, U to tango, U235 or even natural  
Let's do the tango, U to tango. Uranium is our love.  
You can heat up a house with wood; gas will run a car, least it should.  
Diesel can run a train. But a pile needs uran-i-um.  
You can sail on a ship in a breeze; fly a kite in the sky if you please.  
See in the dark with electricity, but uranium will set us all free.

## 9. Chalk, Chalk River

(To the tune of *Choo Choo Ch'Boogie*  
written by Vaughn Horton, Denver Darling, and Milt Gabler)

I came to Chalk River in 1944  
Left Manchester, the place I adore.  
I thought living here would be a real chore  
But here you can watch the eagle soar.  
One day here leaves you wanting more  
Life's not a bore in my wartime four.  
I came to the townsite in 1945  
February was minus thirty-five.  
I thought that I would not survive  
But then one night I took a big dive  
And I learned how to dance the jive  
Now I survive with the jive five.

## 10. ZEEP Reactor

(To the tune of *Chitty Chitty Bang Bang*  
written by Robert B. Sherman and Richard M. Sherman)

Oh, you ZEEP reactor, ZEEP reactor, we love you  
And our ZEEP reactor ZEEP reactor loves us too  
High power, low power, actually, no power  
On ZEEP we depend  
Zero energy experimental pile  
Our heavy water moderated friend  
You will make plutonium, strontium and barium  
You'll even make clean energy; your piping will shine so bright  
Your shielding will be graphite, the pile that all will envy.

## 13. Cleaners

(To the tune of *There Aint Nobody Here But Us Chickens*  
written by Alex Kramer and Joan Whitney)

If Dave Cox is walking about  
And comes out to the pile, checking it out.  
If he hears us and shouts "hey, hey" don't be afraid  
This is what we'll say:  
There ain't nobody here but us cleaners,  
There ain't nobody here at all.  
You keep stompin' around and clompin' around  
Kicking up an awful dust  
We cleaners trying to clean and you we meet  
And stomp, stomp, stomp with your dirty feet.  
So quiet yourself and stop that fuss  
There ain't nobody here but us.  
Point that gamma gun the other way  
And hobble, hobble, hobble off and hit the hay.  
Tomorrow is a bust day  
We've got things to do, no time to play  
We've got brass to shine and floors to wax  
C.D. Howe's coming and that's a fact.

## 20. Deep River

(To the tune of *Shake*  
written by Sam Cooke)

Deep River, we love our nice town  
It's the best place around  
You know we love it here, with loon and deer.  
We've got a working ZEEP in Deep.

Deep River's the best thing  
With beaver and the moose, put atoms to good use.  
Deep's a pretty sight, we've got to do it right  
Put your hands upon your hips  
Come and let your backbone slip  
Move your body not your lip.

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## 14. I Can't Get No Chain Reaction

(To the tune of *Satisfaction*  
written by Mick Jagger and Keith Richards)

I can't get no, chain reaction,  
But I try, I try, I try, I try.  
When we pump in D2O  
Watch the level go up so  
Neutrons should bombard  
Hit an atom but not hard  
And split it wide apart.  
But I can't get no.  
When CD Howe is here  
And we're trying this again I fear  
The needle will just sit  
My belly will be a pit  
CD Howe will have a fit.

## 18. Supercritical Atomic Sustained Chain Reaction

(To the tune of *Supercalifragilisticexpialidocious* from  
*Mary Poppins*, written by Robert B. Sherman and  
Richard M. Sherman)

It's supercritical atomic sustained chain reaction  
Now that we've accomplished it,  
We'll start to gain some traction  
If you understand it you are in the nerdy faction  
When I said okay let's go, I didn't know quite why  
I thought nuclear'd be neat, and that is not a lie  
But now that I have seen ZEEP running at full force  
I'll continue funding for NRX of course.  
So when you think things won't work out  
There's no need to dismay  
Just put a couple rods real close  
And you'll be on your way  
This little ZEEP reactor will change everyone's life.



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