

EVOs AND THE HUTCHISON EFFECT



NUCLEAR TRANSMUTATION FROM LOW-VOLTAGE ELECTRICAL DISCHARGE

Paper presented at the MIT Cold Fusion Conference
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By
Ken Shoulders

Hutchison Effect

Slow Bending Of Metals
Shredded Metal Structures
Fractured Metal Structures
Propulsion--Both Slow and Impulsive

Melting Without Heat
Metal Luminance Without Heat
EVO Strikes Abound in Sample

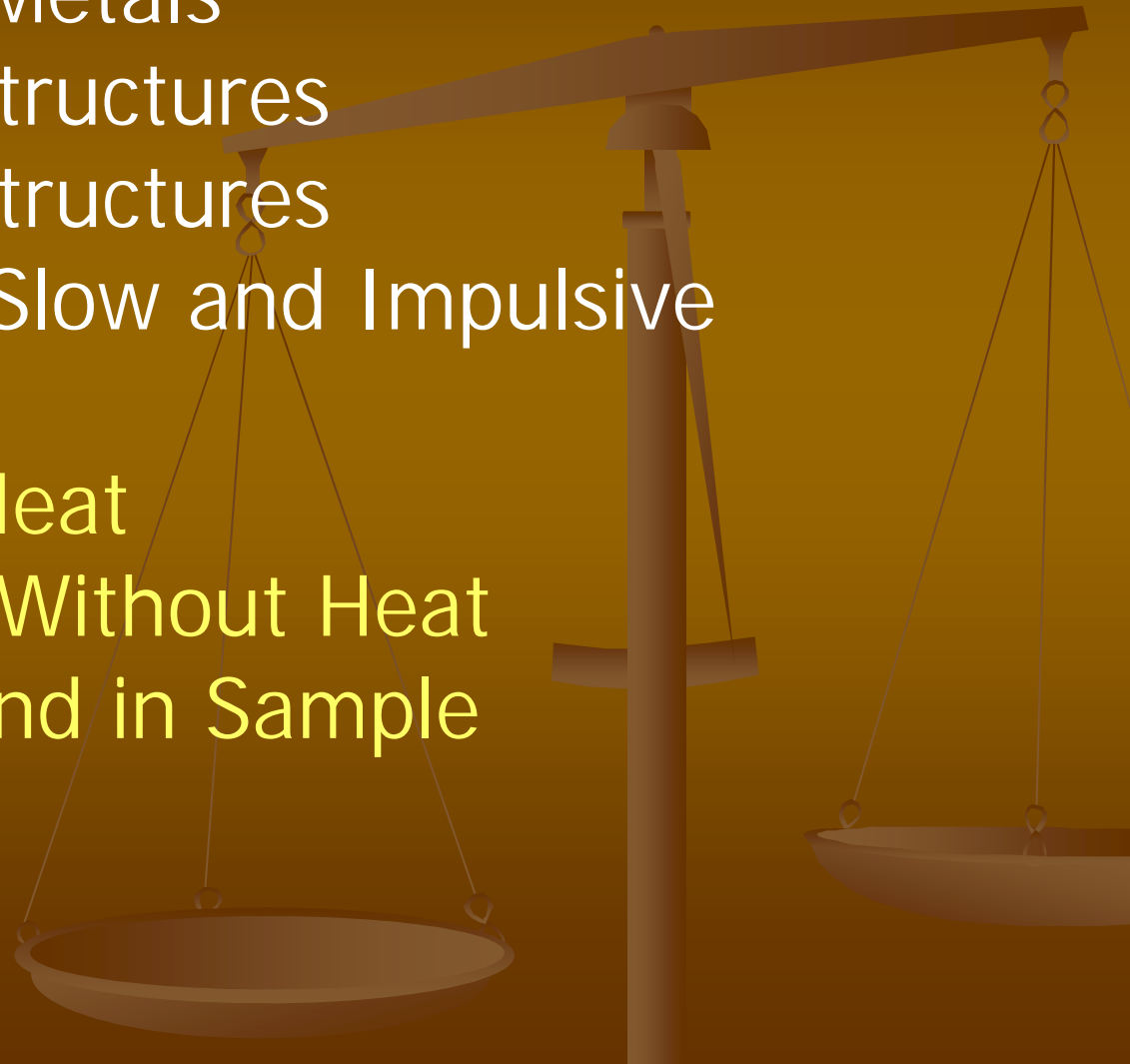


PHOTO EXAMPLES OF
METAL SUBJECTED TO
ELECTRICAL TREATMENT

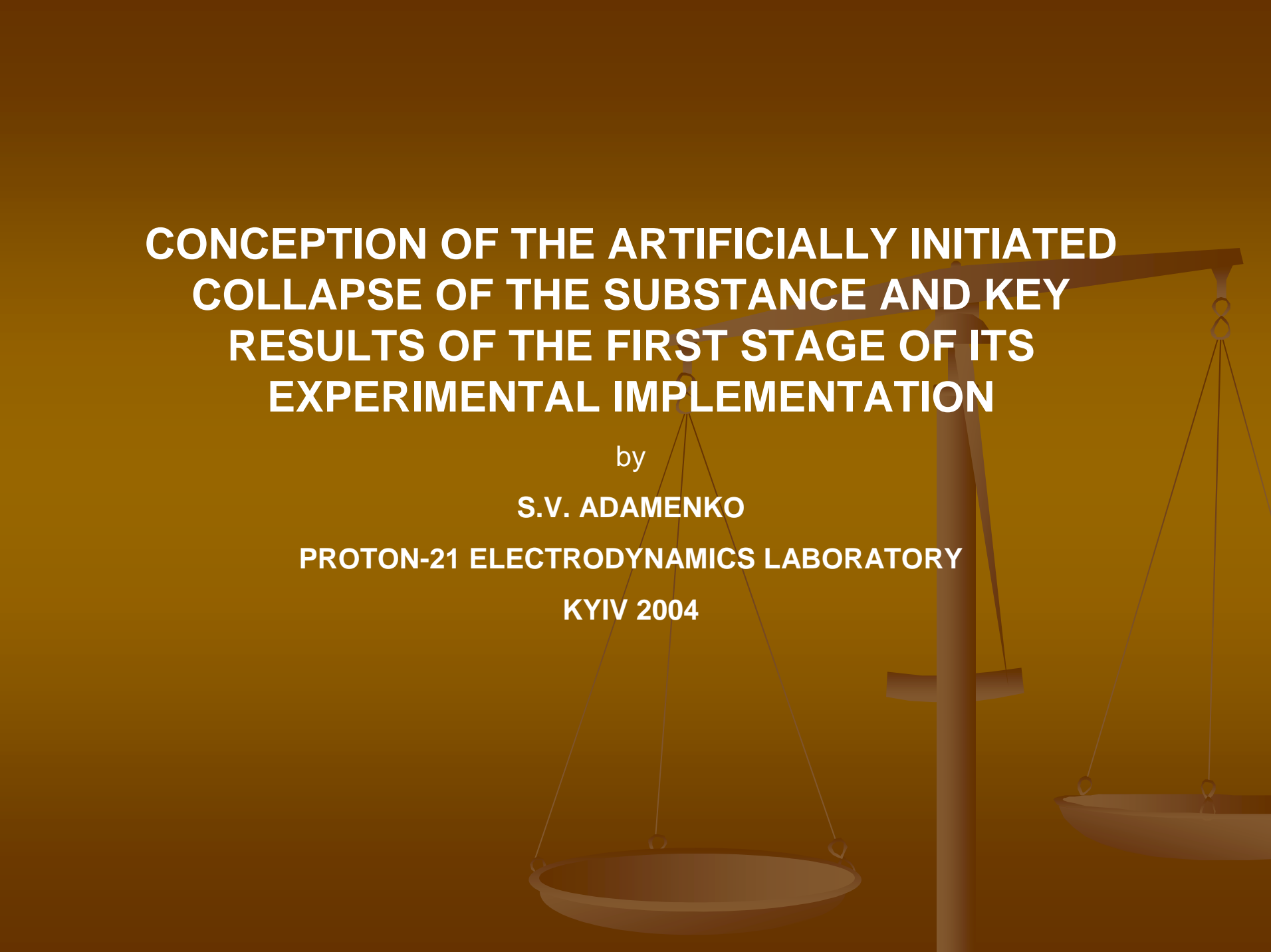
by

JOHN HUTCHISON



ELECTRICALLY TREATED METAL BY HUTCHISON





**CONCEPTION OF THE ARTIFICIALLY INITIATED
COLLAPSE OF THE SUBSTANCE AND KEY
RESULTS OF THE FIRST STAGE OF ITS
EXPERIMENTAL IMPLEMENTATION**


by

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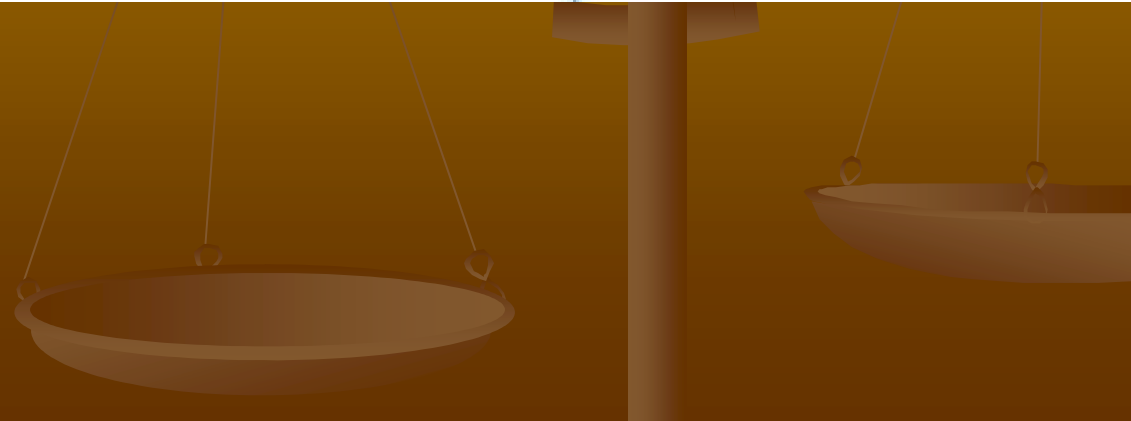
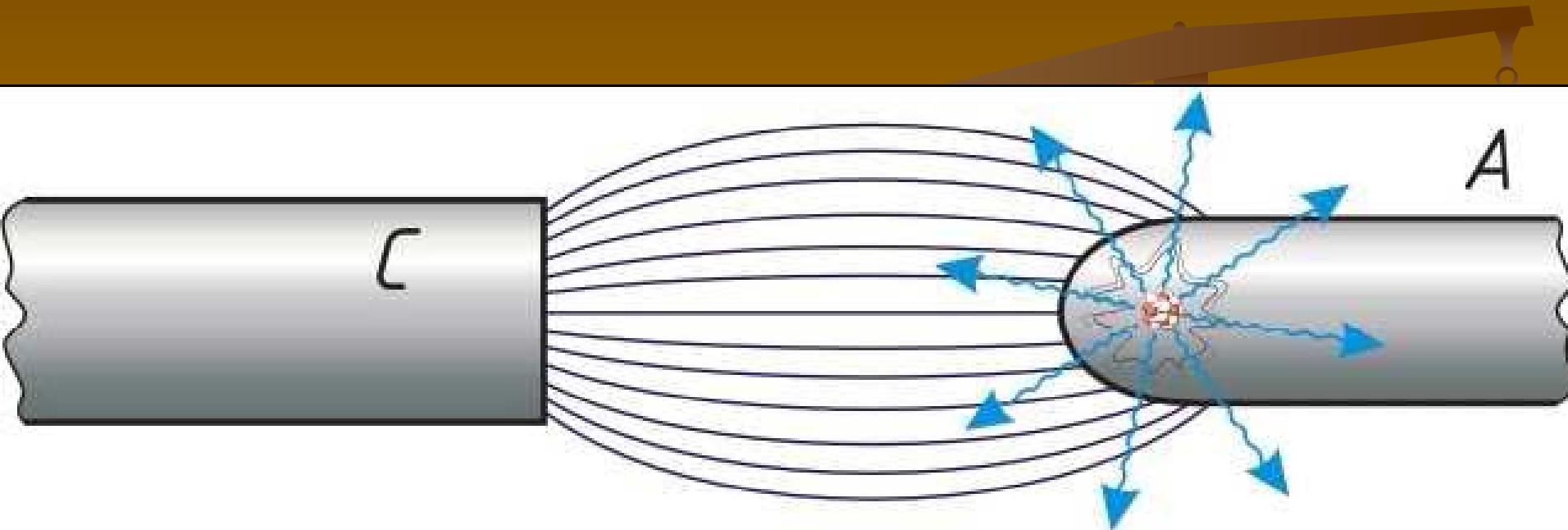
KYIV 2004

Adamenko Nuclear Conversion

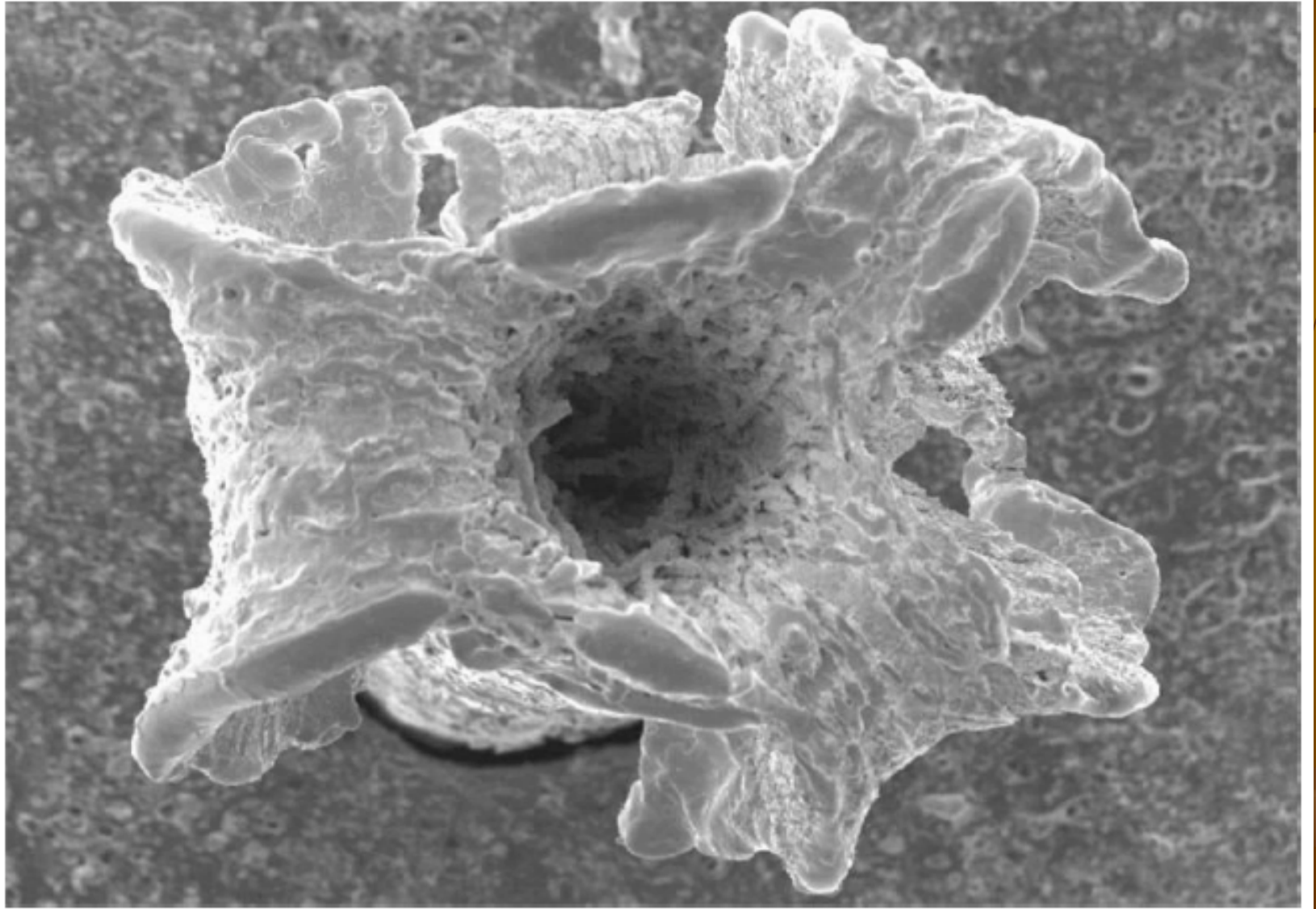


Super-Heavy, Stable Isotope Generation
Wide Range of Isotopic Transmutations
High Energy Photons and Ions
Cobalt 60 Neutralization
Overall Energy Gain

ELECTRODE CONFIGURATION FOR ADAMENKO WORK

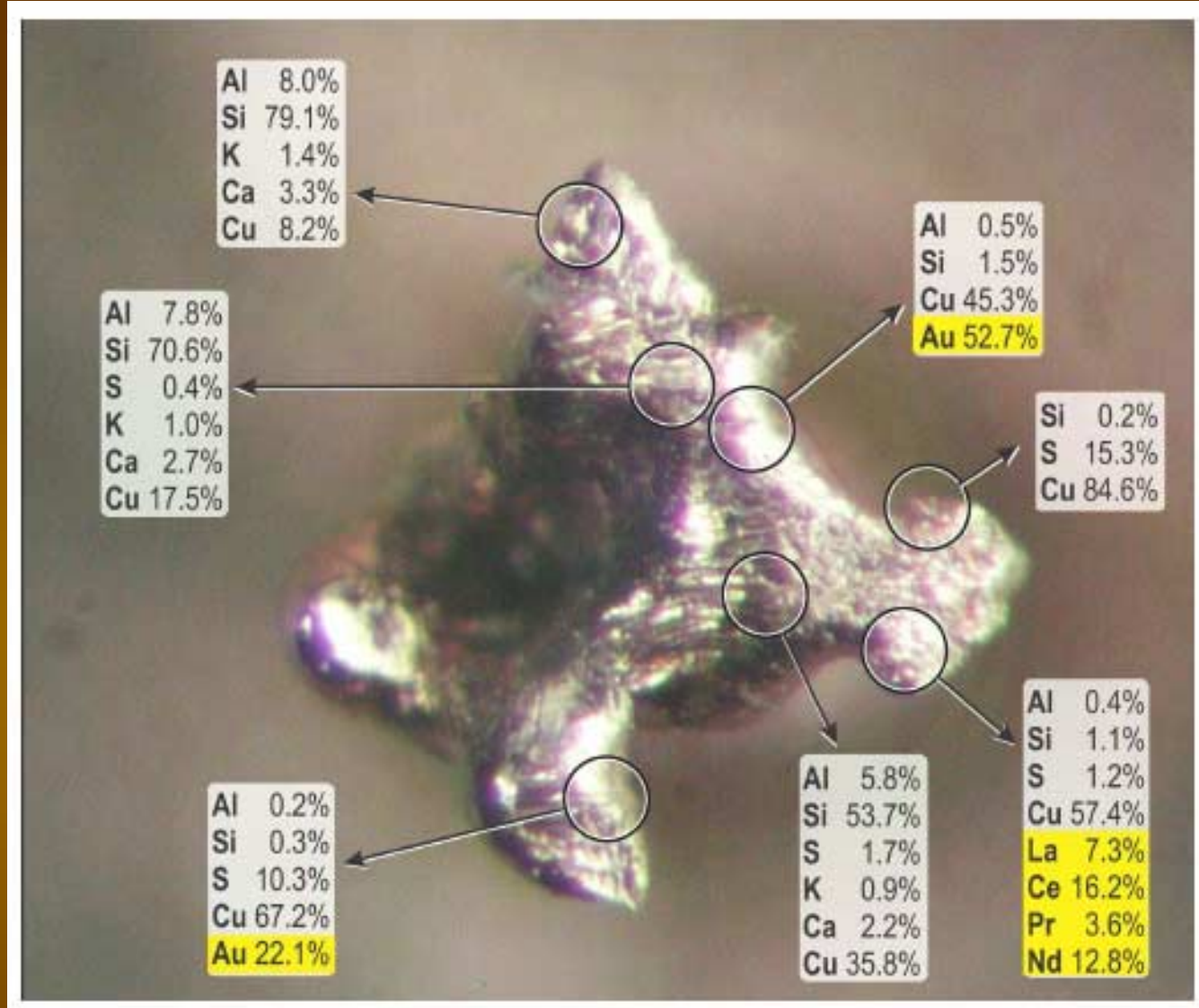


SEM OF COPPER ANODE SUBJECTED TO ELECTRICAL DISCHARGE

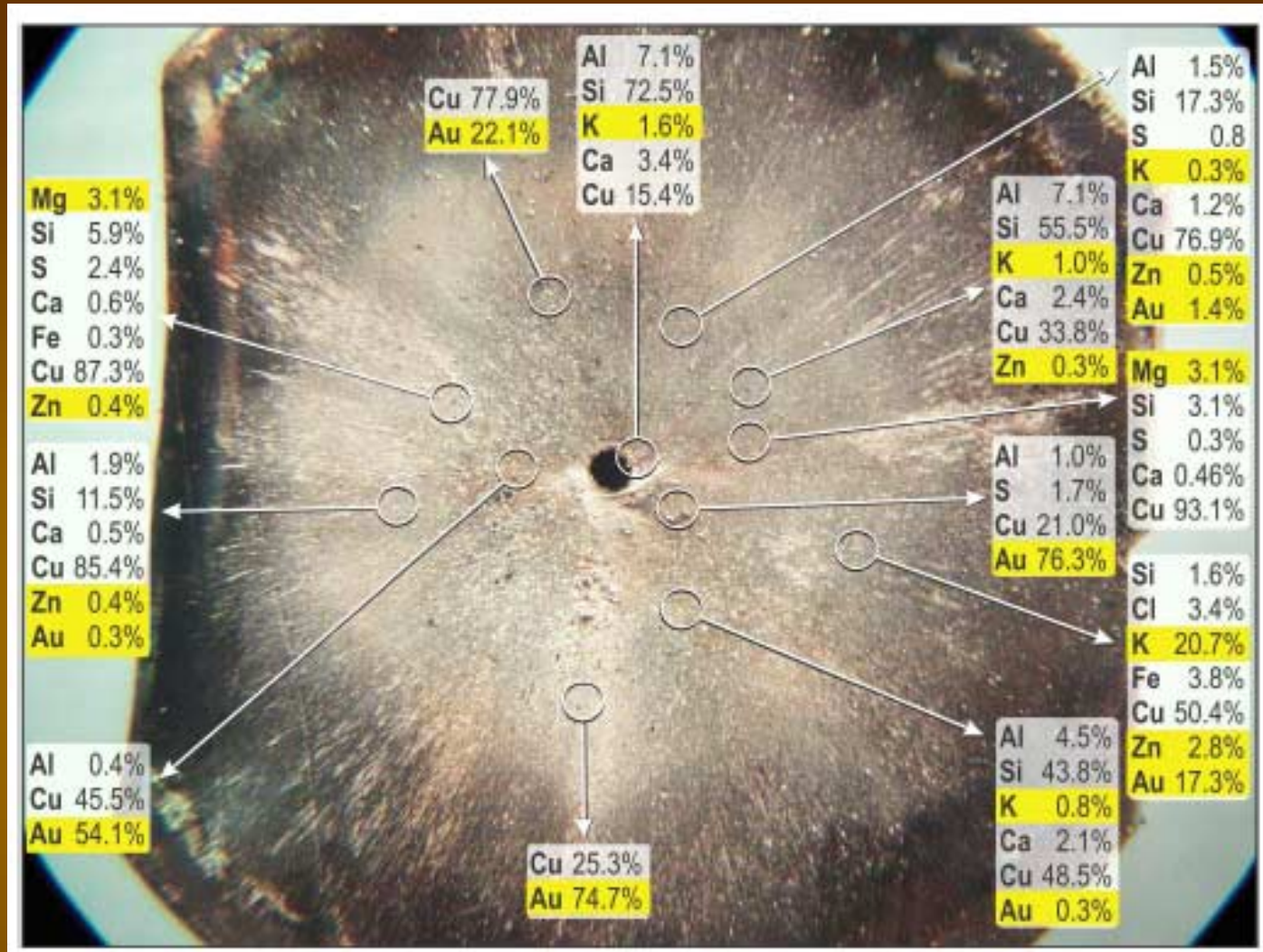




Copper target after the experiment, with traces of solidified silver-and-white “lava” on its “petals”, which had flowed out of the target center.



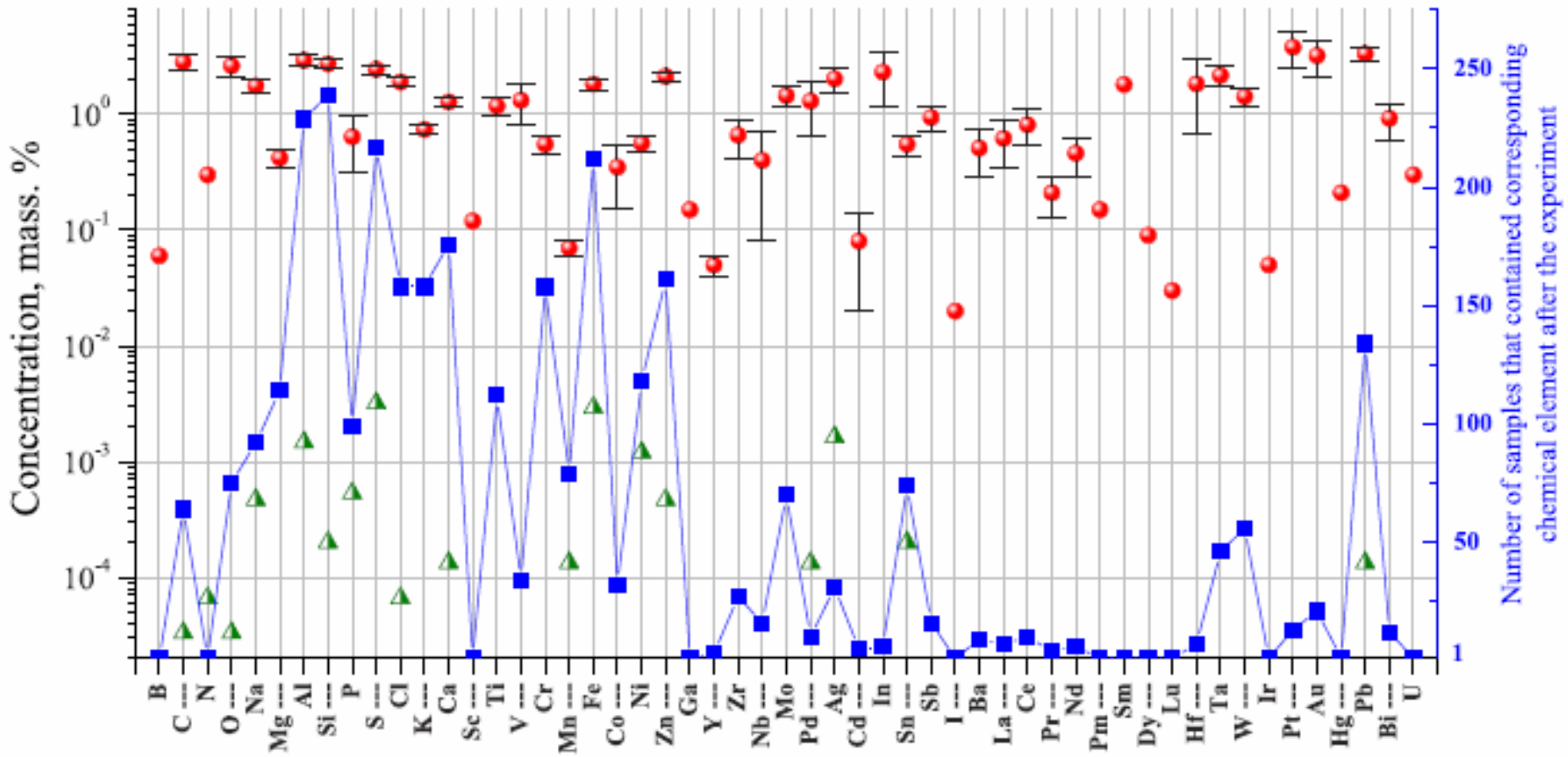
Target after experiment No. 2107. Material of both the target and the accumulating screen is copper (Cu 99.99 %). The method of investigation is X-ray electron probe microanalysis (REMMA102 device, element detection range: from Na to U).



Accumulating screen after experiment No. 2107. Material of both the target and the accumulating screen is copper (Cu 99.99 %). The method of investigation is X-ray electron probe microanalysis (REMMA102 device, element detection range: from Na to U).

▲ impurities of the initial material (Cu 99.99%)
● after the experiment

—■— number of samples



Results of local analyses of the element composition in 277 copper (Cu mass. 99.99 %) accumulating screens, each of them was used in the experiment with copper target of the same purity. The method of investigation is X-ray electron probe microanalysis (REMMA102 device, element detection range: from B to U).

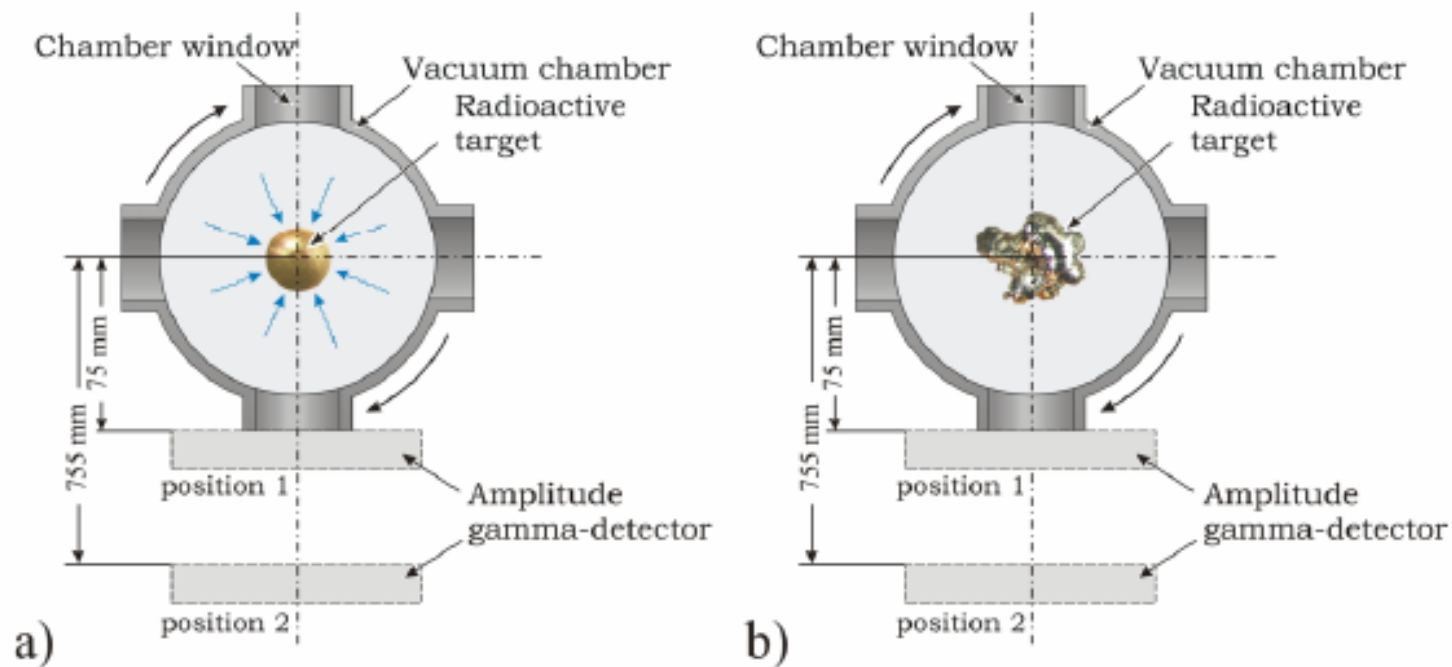


Table 1. *Decrease in the gamma-activity of ^{60}Co after the experiment.*

Sample No.	Decrease in the gamma-activity, %	Sample No.	Decrease in the gamma-activity, %	Sample No.	Decrease in the gamma-activity, %
2397	48	2479	2	2588	47
2398	11	2481	23	2600	33
2425	22	2534	30	2769	29
2426	17	2558	23	2770	36



**LOW VOLTAGE
NUCLEAR TRANSMUTATION
WORK IN PROGRESS**

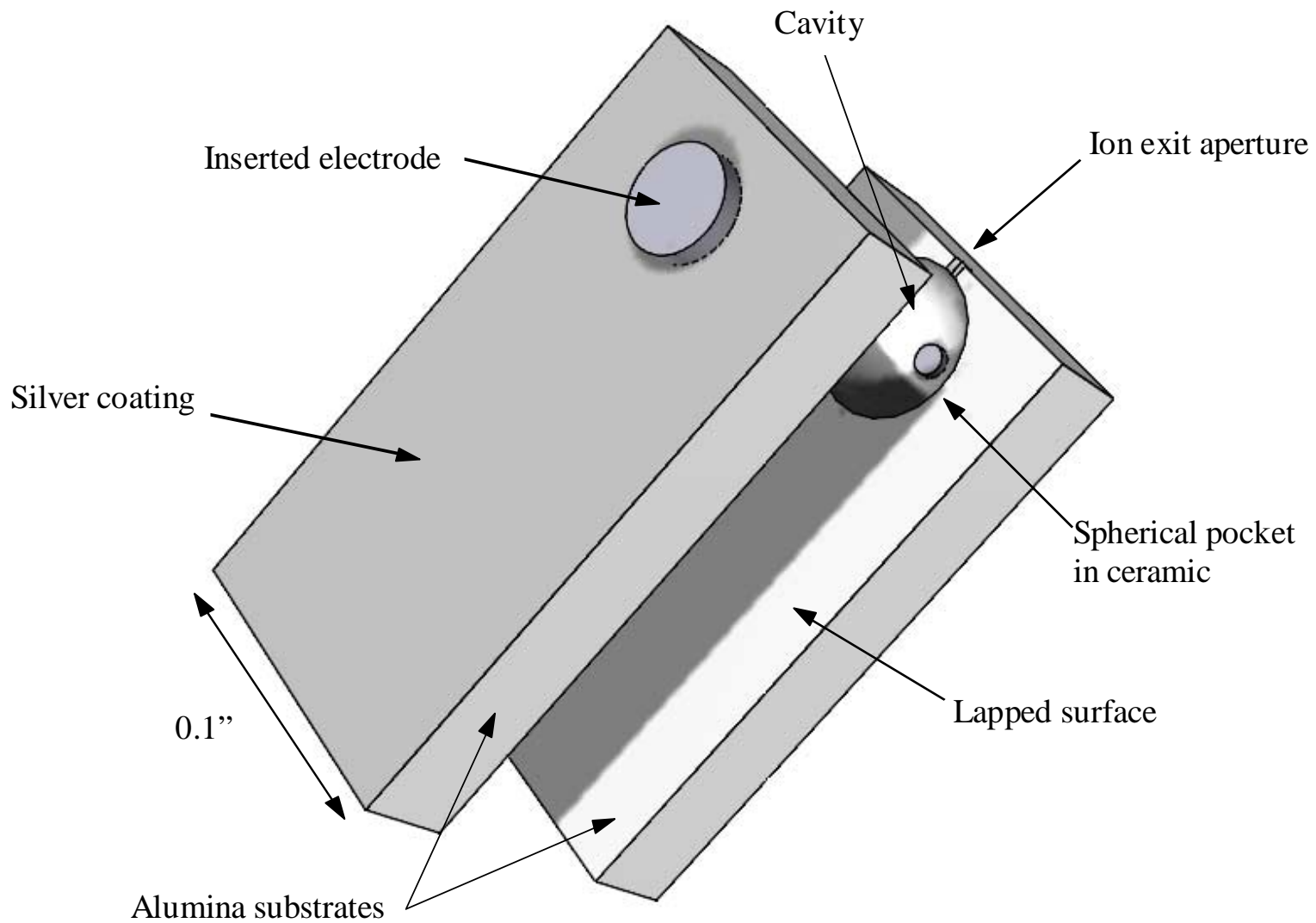
(Completion expected by June 2004 if sponsor is found)

by

KEN SHOULDERS

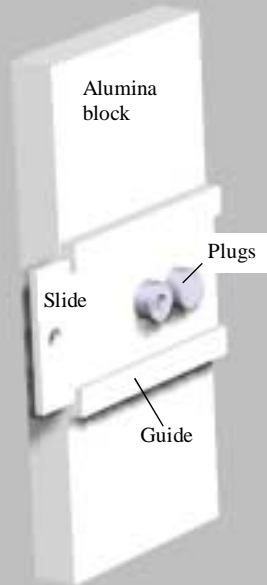
Bodega, California

ION SOURCE



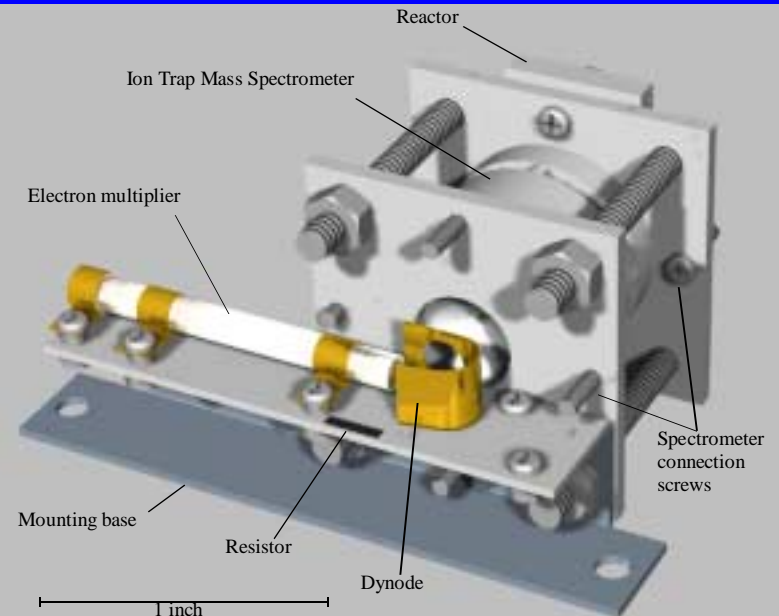
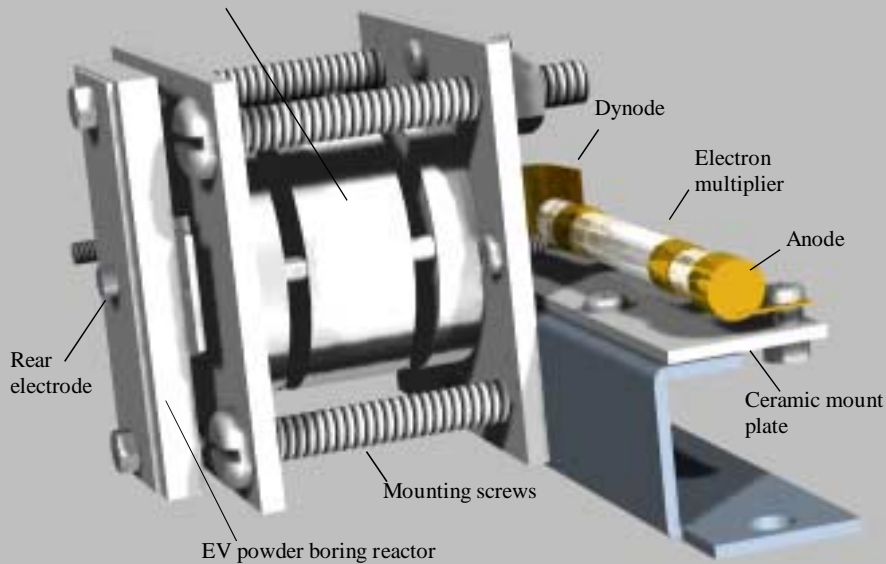
EV REACTOR AND CYLINDRICAL ION TRAP MASS SPECTROMETER

EV
REACTOR
WITH
SLIDE
VALVE



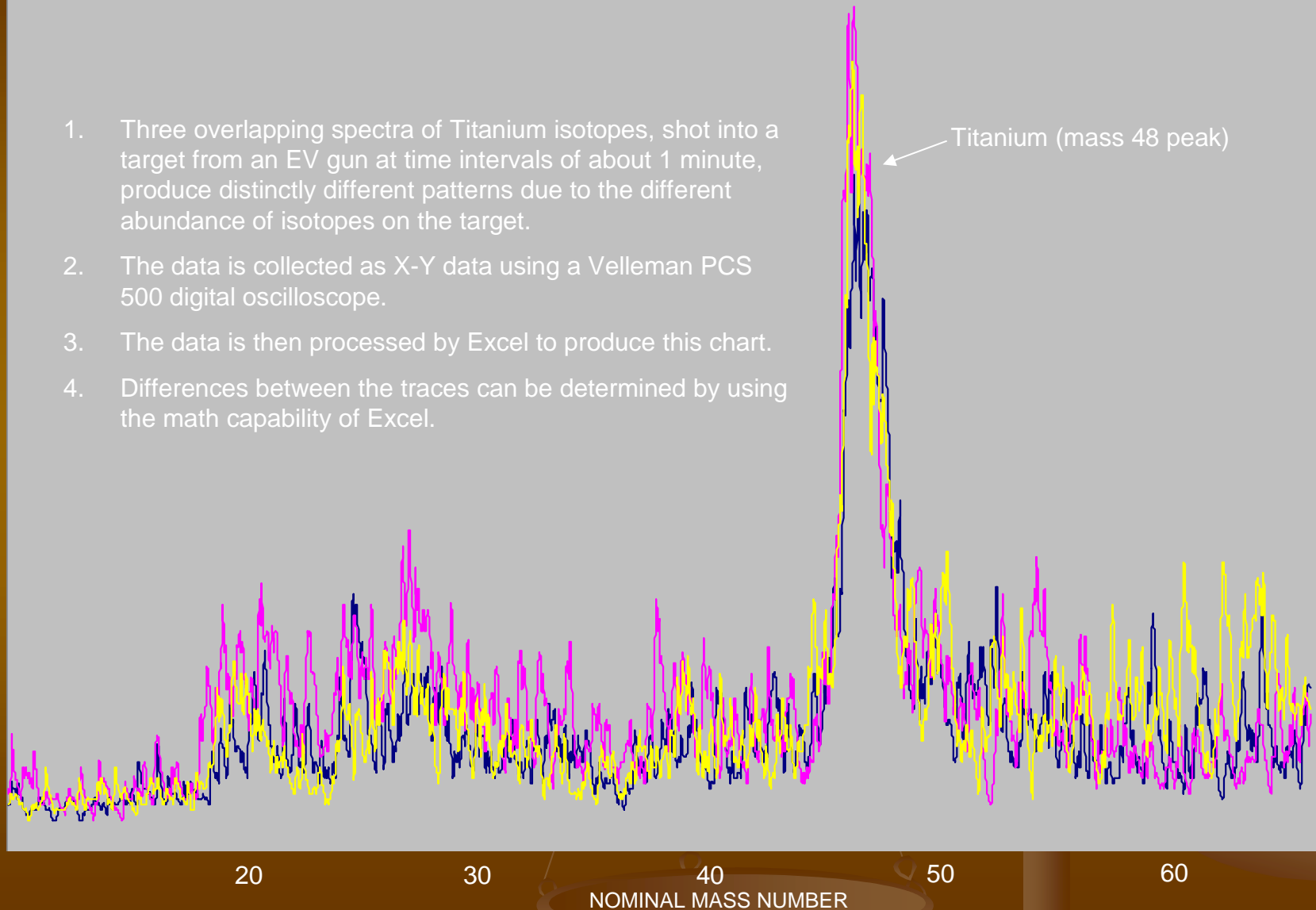
2 VIEWS OF CYLINDRICAL ION TRAP MASS SPECT.

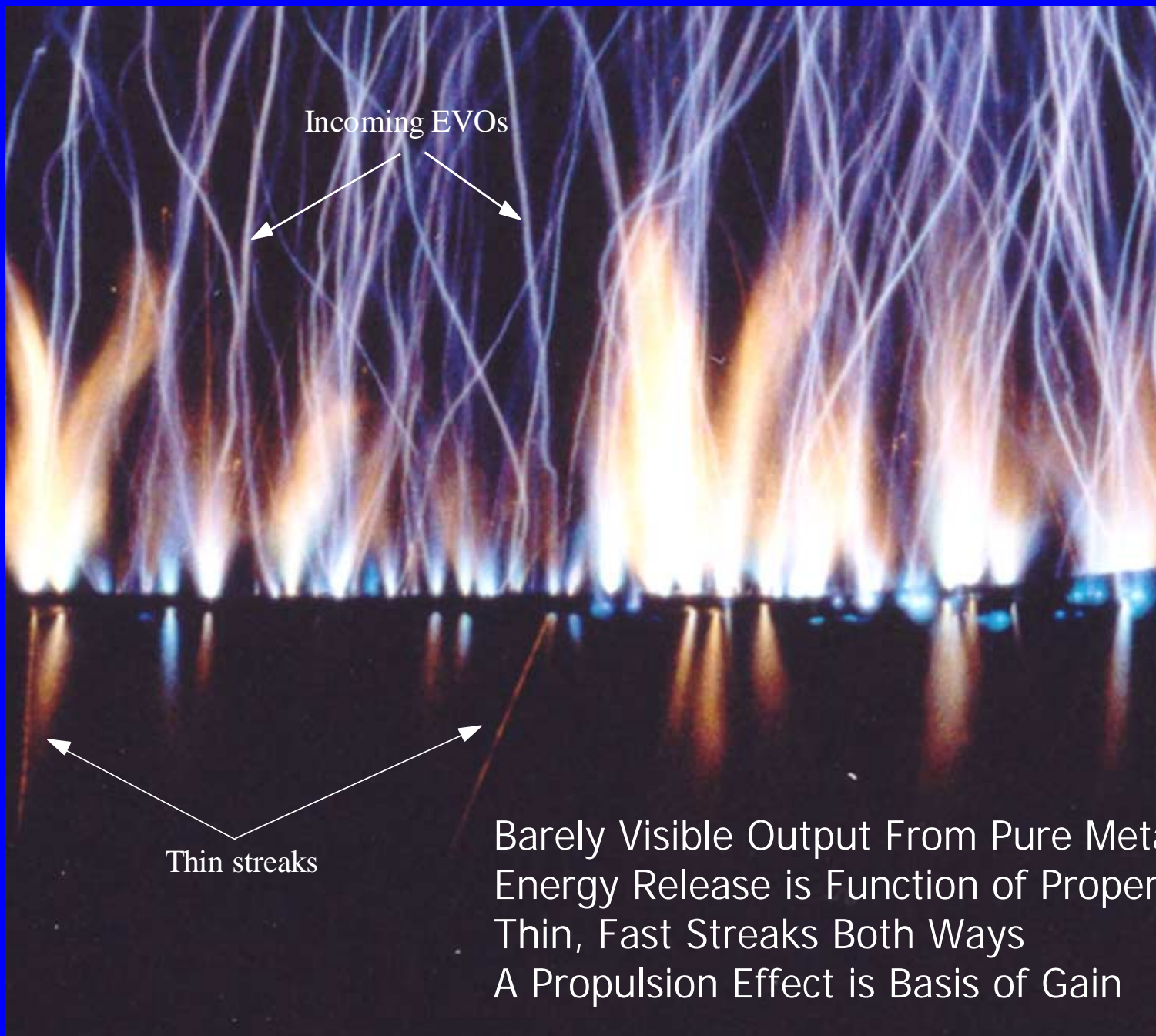
Cylindrical Ion Trap Mass Spectrometer



FINDING WHAT'S NEW

1. Three overlapping spectra of Titanium isotopes, shot into a target from an EV gun at time intervals of about 1 minute, produce distinctly different patterns due to the different abundance of isotopes on the target.
2. The data is collected as X-Y data using a Velleman PCS 500 digital oscilloscope.
3. The data is then processed by Excel to produce this chart.
4. Differences between the traces can be determined by using the math capability of Excel.





Edge View
of Coated
Aluminum
Foil Being
Struck by
EVOs

Barely Visible Output From Pure Metal Strikes
Energy Release is Function of Proper EVO Loading
Thin, Fast Streaks Both Ways
A Propulsion Effect is Basis of Gain



Fig. 8 Front view of plasma plume with cover removed



Fig. 9 Side view of plasma plume with cover



Fig. 10 Plasma plume with apertures installed

EVO Plume Generator

Single Metal Strike Barely Visible

Dense Metal Plasma Strike 500 Times Brighter

Dual, Synchronized EVOs Produced Increased
Brightness

Plasma Focus

Gigavolt Output For Kilovolt Input

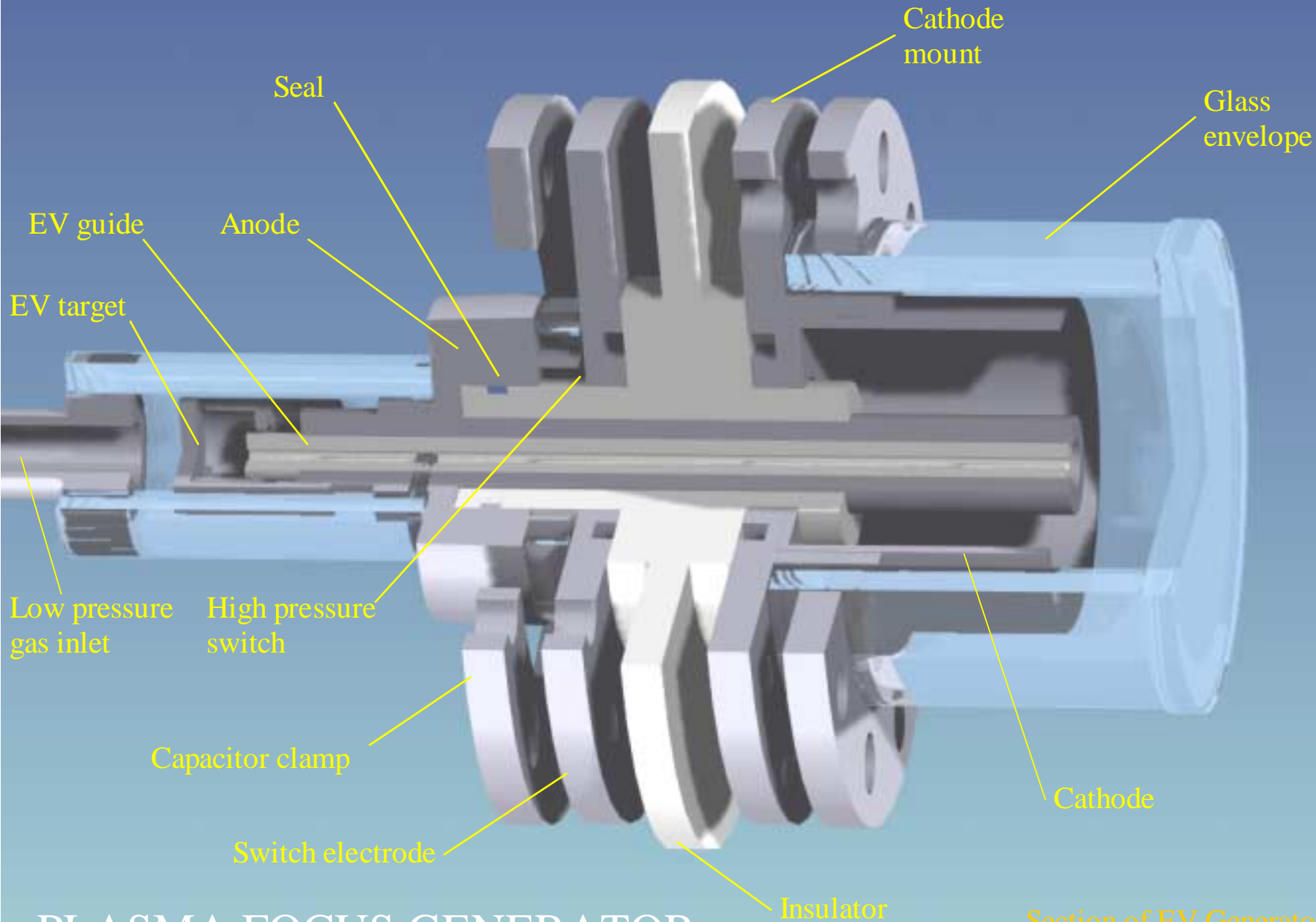
Electron Cluster Generation Unrecognized

PF Commercially Available for Transmutation

Off-Axis Transmutation

Single EVO Capable of >50 KeV Output From 1 KeV Input (Superluminal Paper by KS)

PF Scaling Effects



PLASMA FOCUS GENERATOR

Section of EV Generator
12/5/98

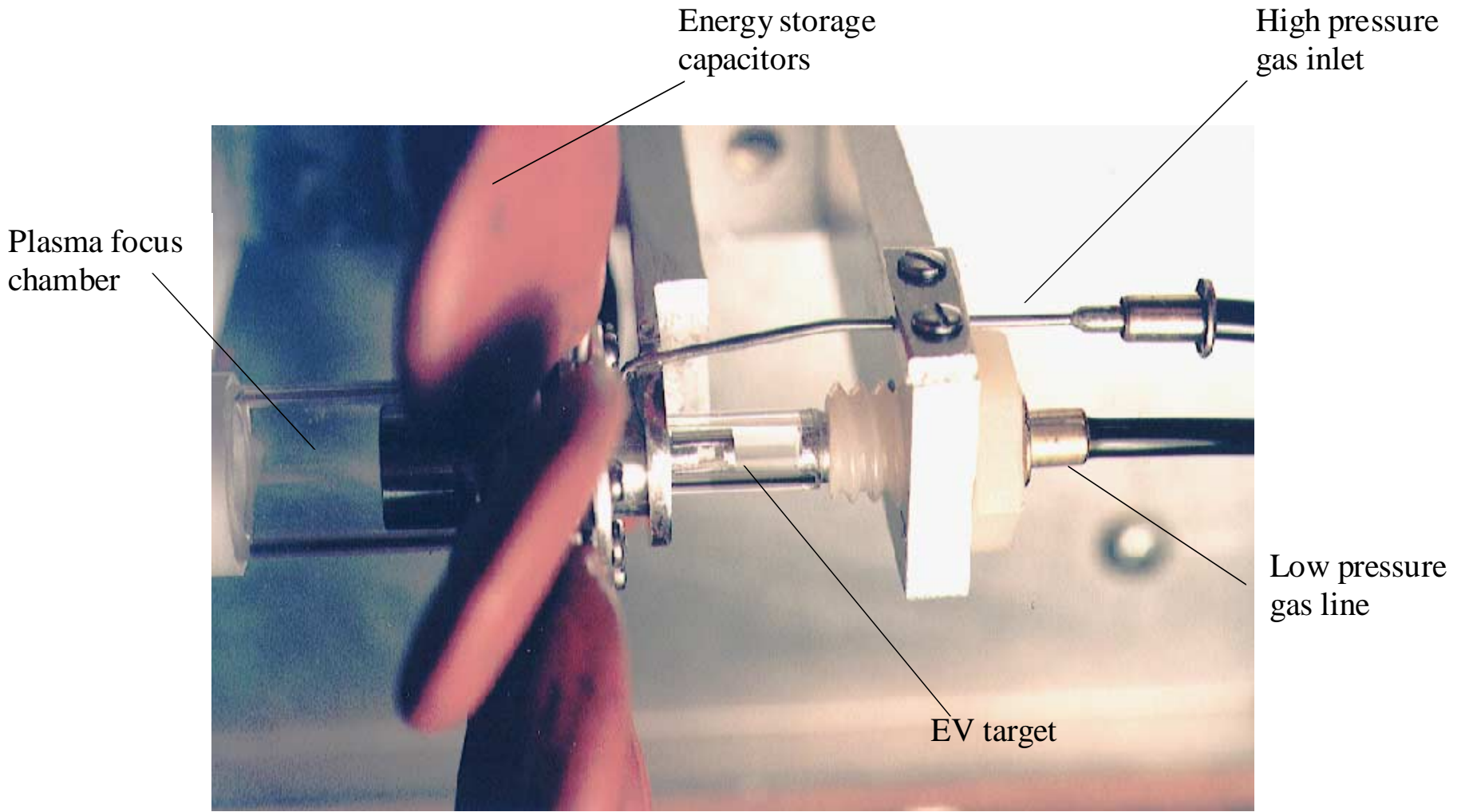
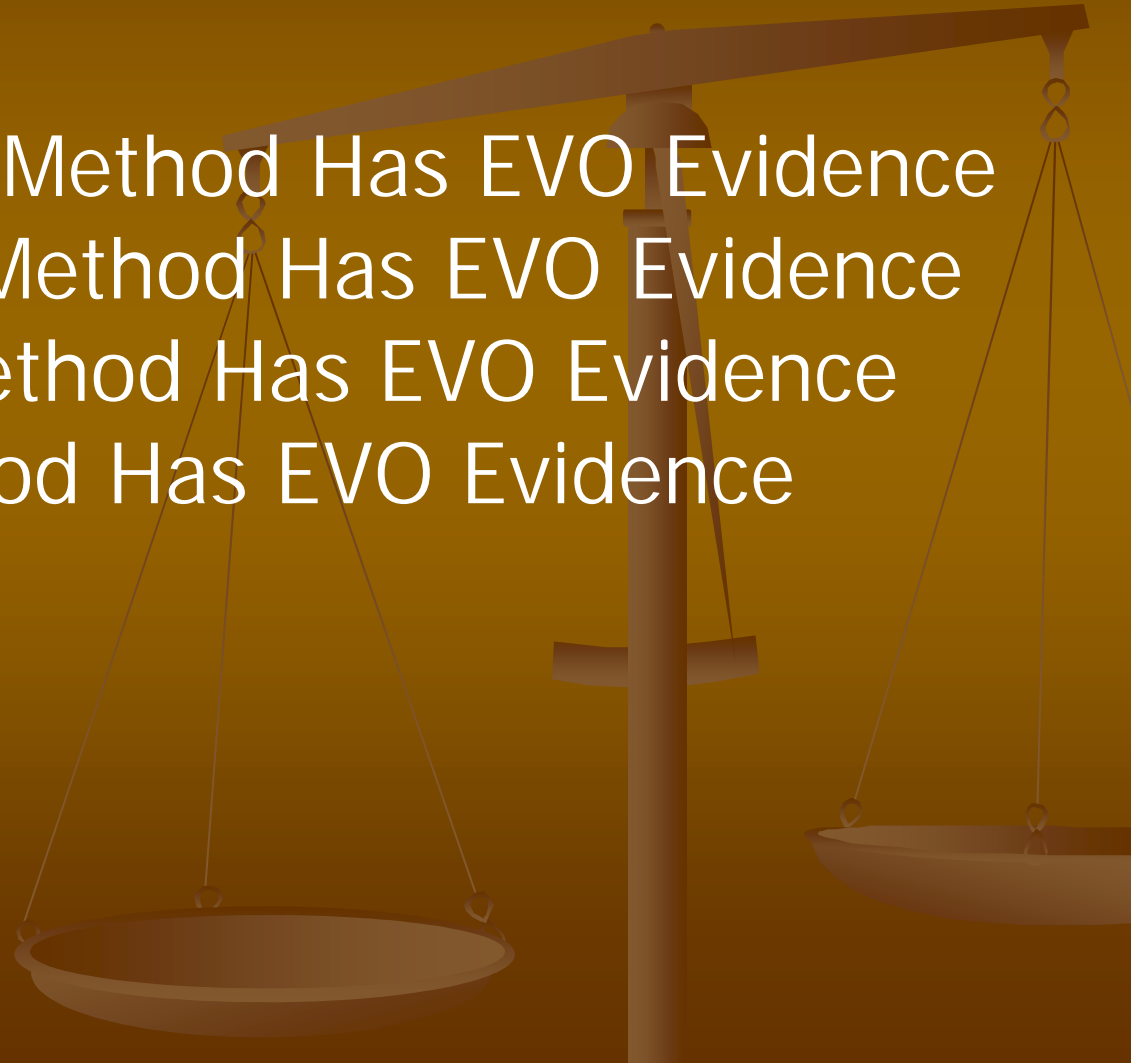


Fig. 3

Cold Fusion

Thermal Cycling Method Has EVO Evidence
Gas Discharge Method Has EVO Evidence
Electrolytic Method Has EVO Evidence
Sonic Method Has EVO Evidence



Summary

All Listed Technologies Utilize EVOs as Base Technology

Thermal Output Capability Only by Destruction

Electrical Output Without Device Destruction

Notion of Proper Component Design as Gain Basis

With Proper Design, Hutchison Effect Could Function as Claimed at The Low Power Actually Used

THE ENERGETICS OF THESE TECHNOLOGIES ALL HAVE A COMMON BASIS IN ELECTRON CLUSTERING



PLASMA FOCUS

HUTCHISON EFFECT

ADAMENKO WORK

EVO ENERGY PRODUCTION & TRANSMUTATION

COLD FUSION

OUR NEXT ERA OF ENERGY HANGS IN THE BALANCE

WEIGH IT CAREFULLY

