Project Aquarius and the Looking Glass Project at Facility S4 at Area-51

In "Alice in Wonderland", the White Rabbit is introduced as always running late. He carries a watch that is running backwards. But when viewed Through the Looking Glass, it shows time correctly.

Conspiracy Theorists often use the phrase "Going down a deep rabbit hole" when dealing with Government and Military cover ups and the black ops world. Well, there is a reason for this. The Government uses the ALICE CODE.

"Above the door frame leading into the lab that contains the Looking Glass project at facility S4 at Area-51, there is a stuffed White Rabbit holding a backward watch mounted permanently to the frame."

"Per Dan's [Dan Burisch doc pdf URL] comments, permanently wired above the entrance to the Project Looking Glass laboratory was a large 3-foot tall statue of a rabbit (symbolic of "Alice in Wonderland"). This rabbit was described as having a clock in his hand and wearing a royal maroon vest with gold fringes and black buttons."

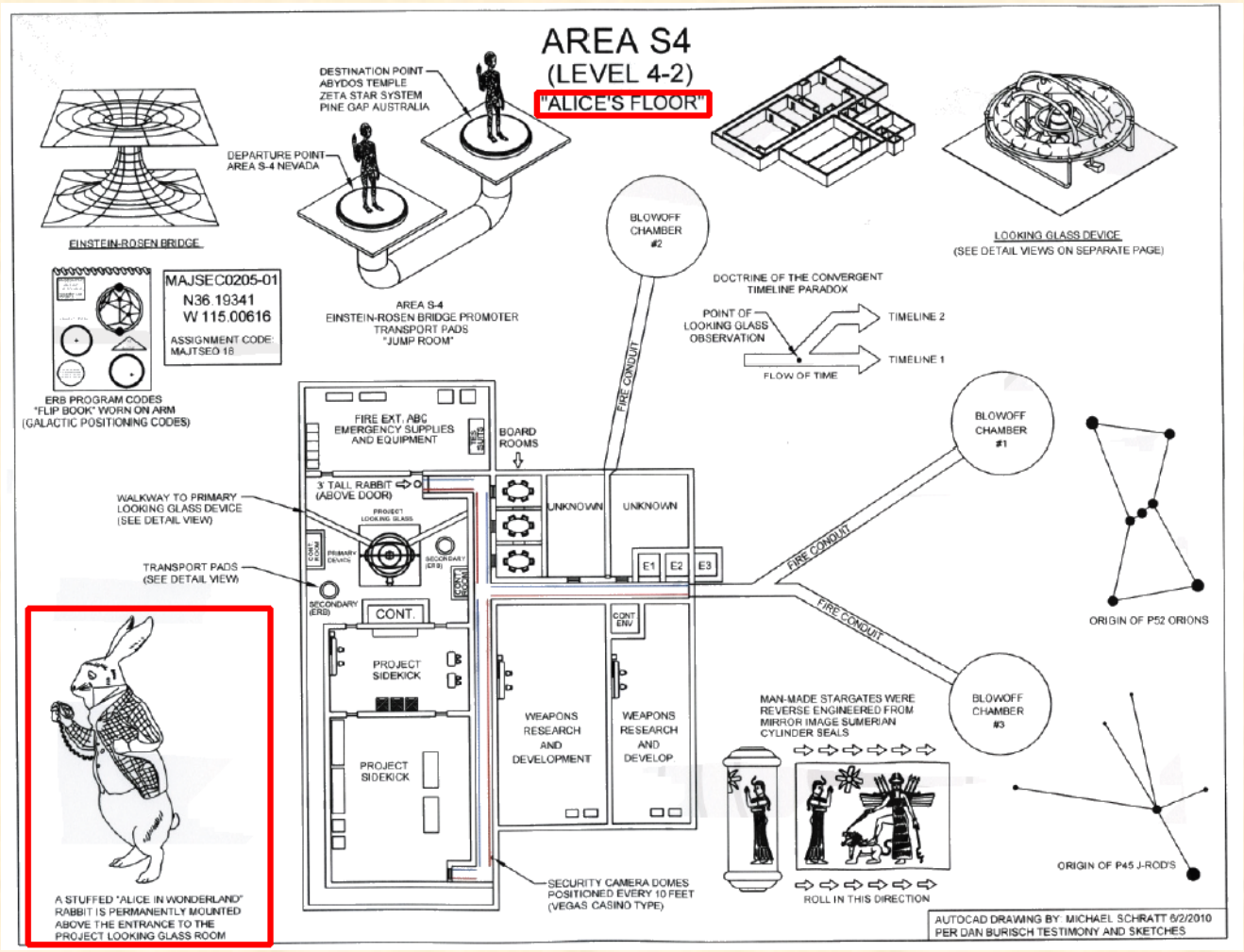
"Level 2 (or 4-2) at Area-51/S4was known as "Alice's Floor". This specific floor contained a laboratory for weapons research and development, 3 board rooms, and provisions for emergency supplies. Also located on level 4-2 were 2 specific areas which contained components for **Project Sidekick**. **[StealthSkater note: Bob Lazar doc pdf URL said that there were 3 projects ongoing at Site-4. 'Galileo' involved antigravity. 'Sidekick' involved using a gravity lens for particle beam weapons. 'Looking Glass' involved in looking into the Future (and possibly the Past).]**

"Level 4-2 was also the location of **Project Looking Glass**. This device utilized 6 (composite) electromagnetic fields and a height adjustable rotating cylinder which is injected with a specific type of gas. The entire assembly can be rotated 90 degrees from the horizontal axis. This allows scientists to warp the local fabric of space-time both forward or backwards by long or short distances relative to the present time.

"The Project Looking Glass device was used to predict the potential probability of Future events. Once the device is tuned properly, images of probable Future events are projected in open space within the fields similar to a hologram.

"The data output of the device (images and in some cases sounds) were then captured via high resolution audio-video capture devices. If multiple probabilities of the same event were displayed, they could be de-interlaced by use of specific software platforms.

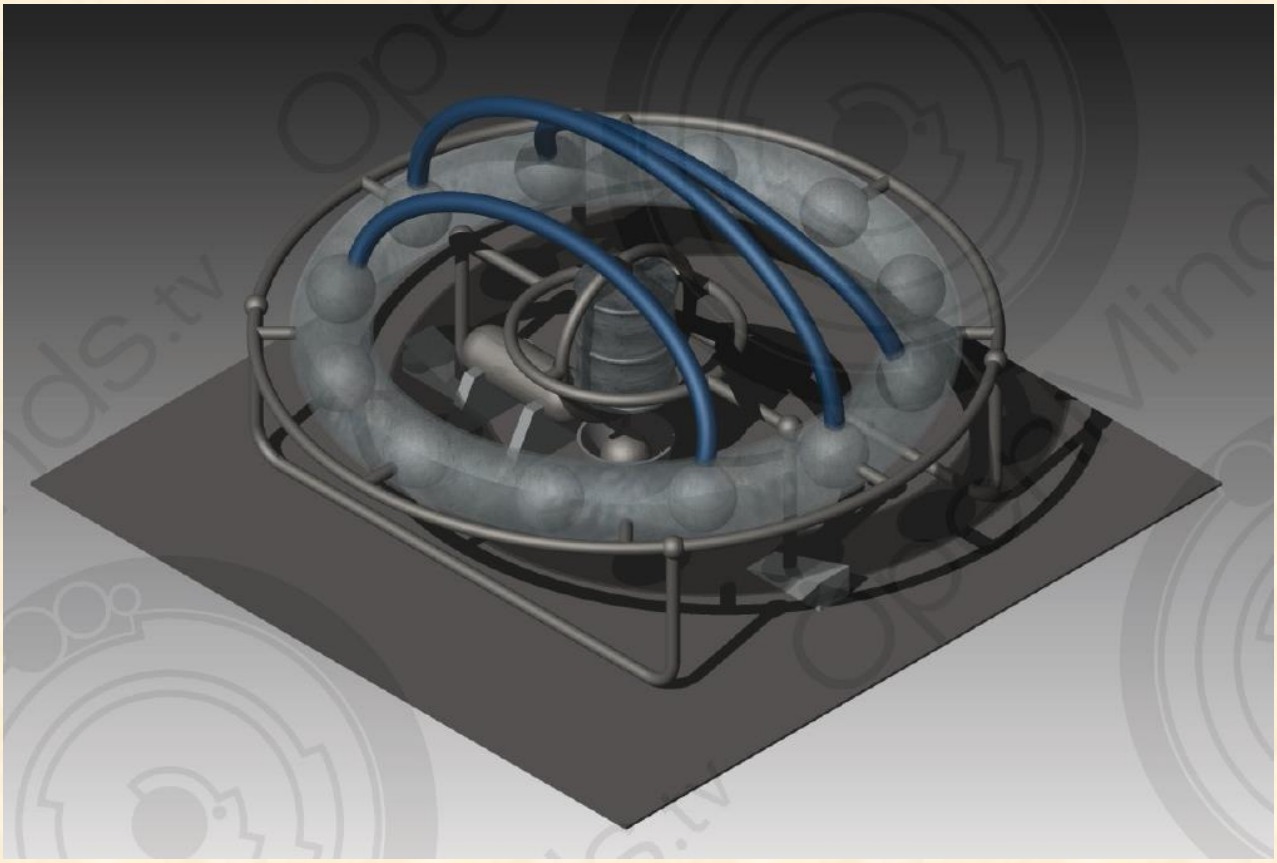
"Next to the Project Looking Glass device were 2 “transport pads” which could **teleport** physical matter or humans from one location to the other instantly but not always reliably and with certain disastrous outcomes during testing phases. Dan had the unfortunate experience of being in the room during one of those unfortunate outcomes and witnessed a death.



"During Dan's time at S-4, 5 concurrent programs were also being conducted. One named "Project Galileo" dealt with the propulsion system of *extraterrestrial* and future terrestrial vehicles. Another program termed "Project Sidekick" which Dan said relates to a weapons platform but refuses any further comment. The third project known as "Project Looking Glass" dealt with time distortion. More specifically, this program dealt with the physics of seeing the effects of an artificially-produced gravity wave on Time.

"The overall umbrella designation for the study of anything having to do with Extraterrestrial Biological Entities and their interaction with humans on Earth was known as **Project Aquarius**.

"The fourth project was a separate weapons program developed as a second generation research program from Project Sidekick. Dr. Dan refuses to provide the official project name for that program. The other program involved a suite of biological defense operations for which Dan worked in the capacity of senior scientist. No further information will be provided for that program.



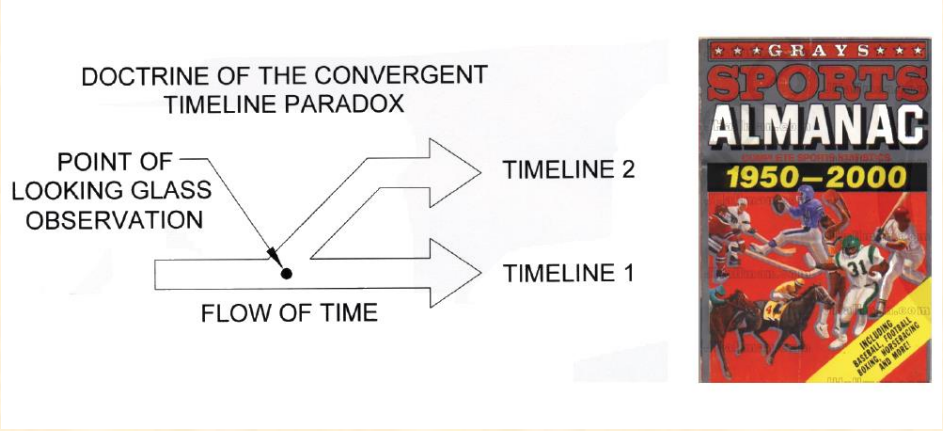
View depicting the Looking Glass device found on Level 4-2 of the S4 facility.*

"The looking glass device at Area S-4 (level 4-2) used a barrel housed within the center hole of a doughnut-shaped structure. During operation, Argon gas was sprayed into the center of the rotating barrel. A number of powerful electromagnets encircled the barrel. As the power is fluctuated into the magnets and the orientation of the magnets is changed, it dials into the probabilities within hyperspace contacting wormholes to various probabilistic universes.

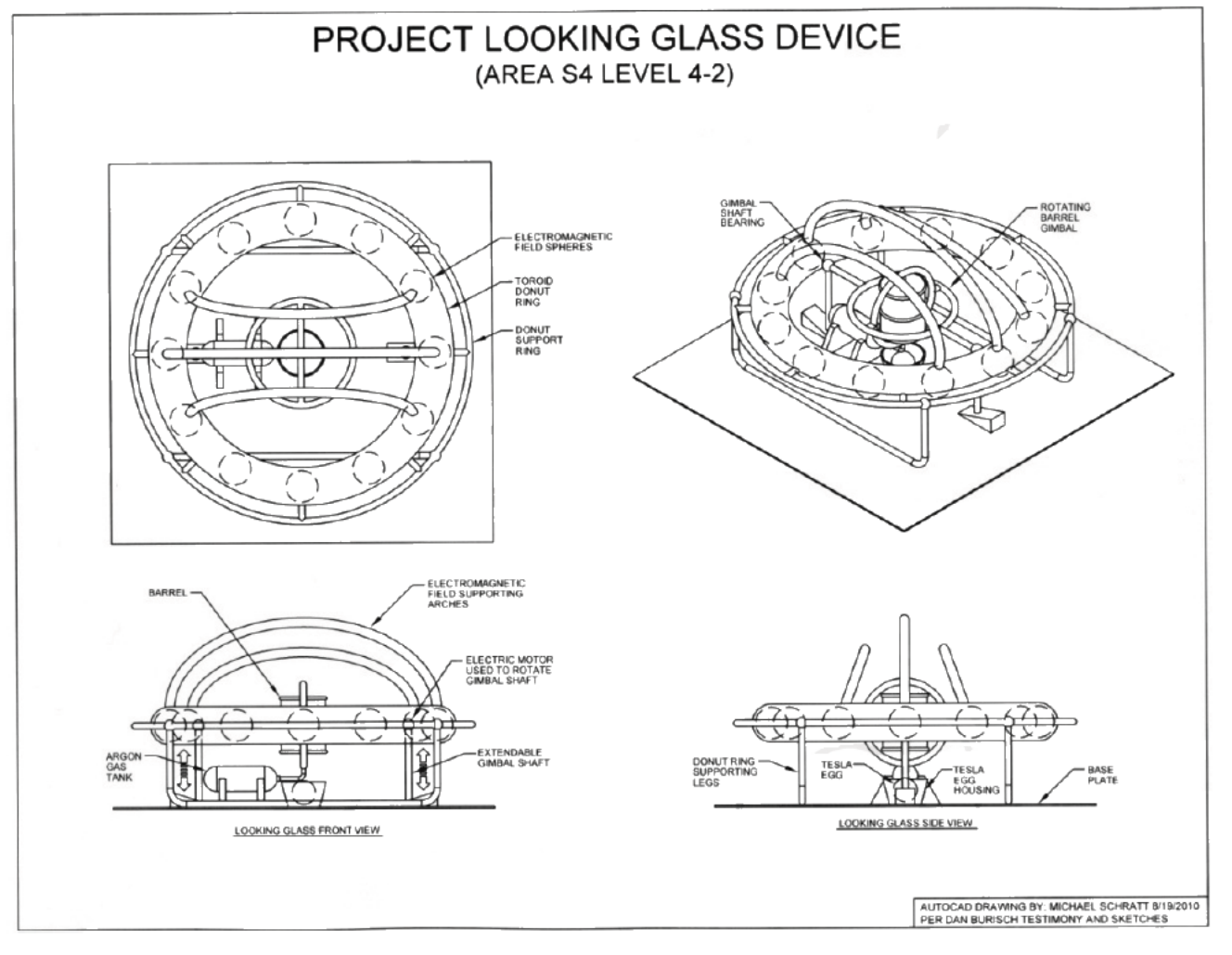
"According to Dan and Will Uhouse (a direct witness to early Looking Glass operations during the 1970s), the scientists working on the program quickly found out that the device was multifunctional. Through a variation of power settings and alignments, the device could produce images. It was soon determined that these images dealt with Future events which might take place on Earth.

According to Dan, it was soon determined what events would be causation events for the ultimate splitting of humanity into what could become the J-Rod's and the Orion beings. That information from the Looking Glass was supported by the direct testimony of both the J-Rods and Orion beings according to their written and oral histories. It was further supported by observation of data from the quantum cube gift (Orion Cube) given to President Eisenhower in 1954.

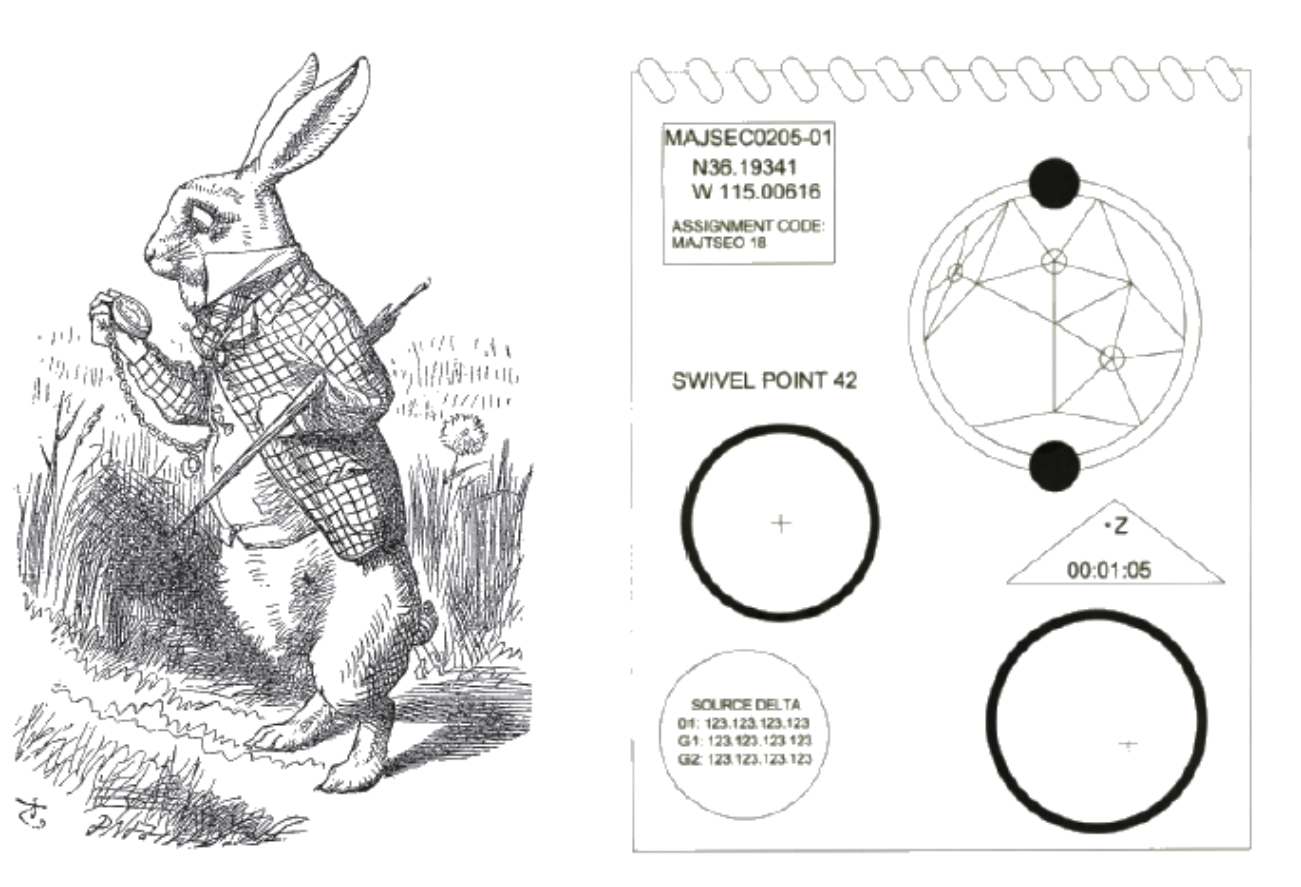
"According to Dan, the Looking Glass devices and Stargates were dismantled in an effort to protect humanity based upon the totality of information collected. There were also several other efforts commissioned by Majestic to derail the potential sequence of events that would have led up to the catastrophe." **[StealthSkater: I wonder if this could be related to former Air Force ELINT Sgt. Dan Sherman's Project Preserve Destiny =>** doc pdf URL **]**



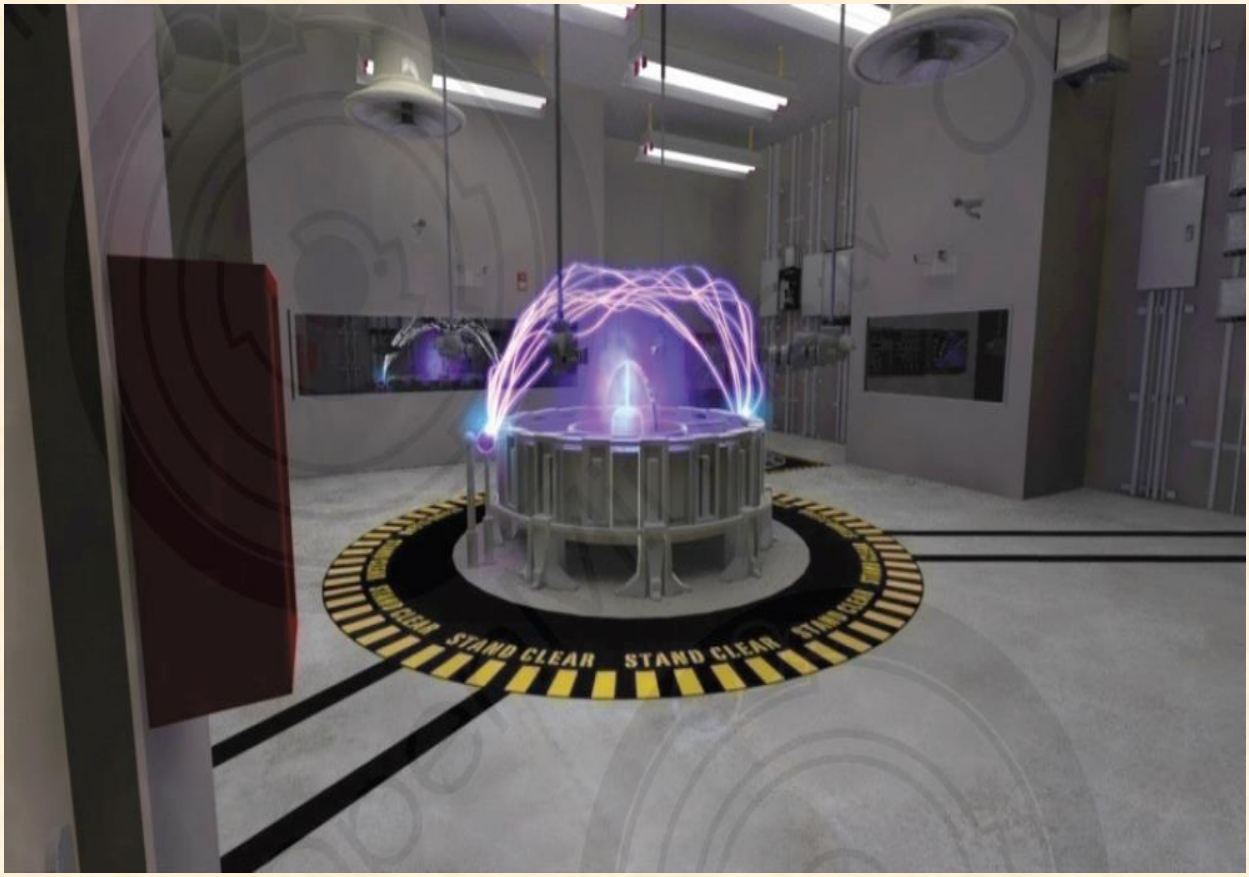
The "doctrine of the convergent timeline paradox" is well illustrated in the movie "Back to the Future - Part II".



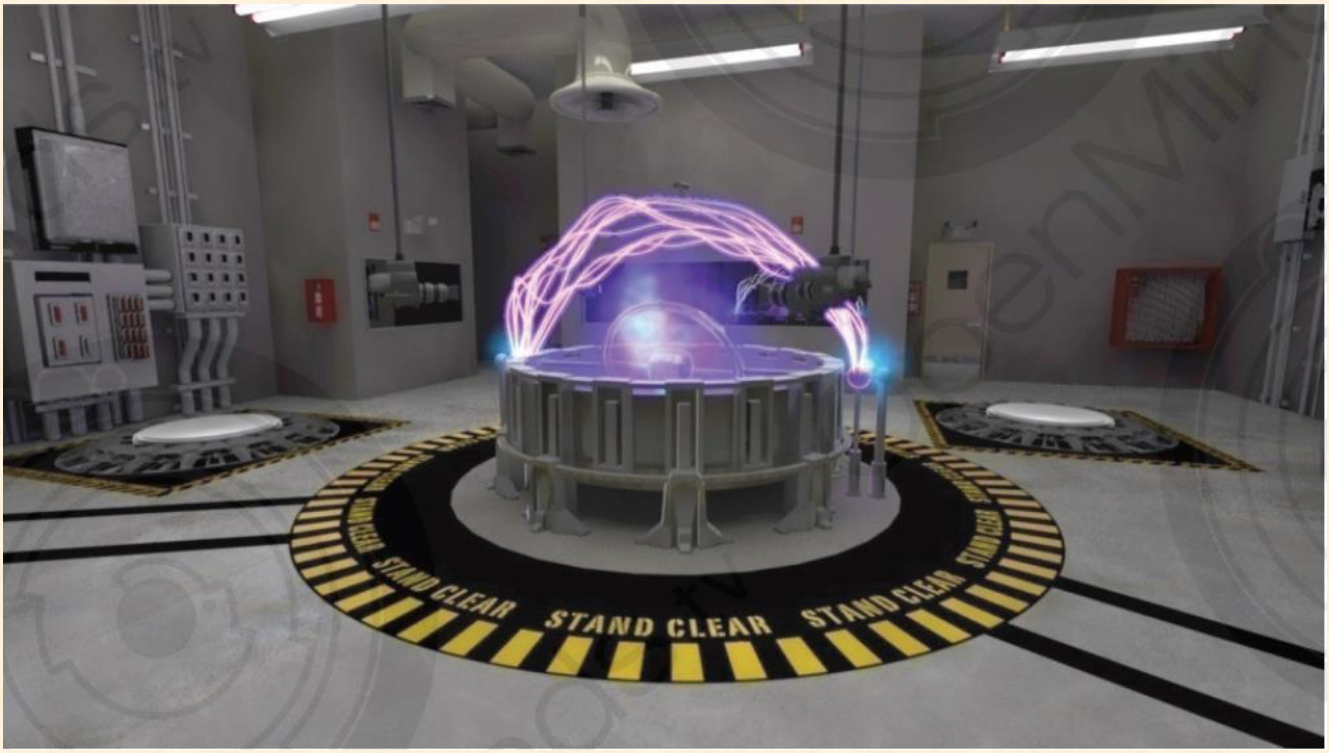
Three-view drawing of the Looking Glass device.*



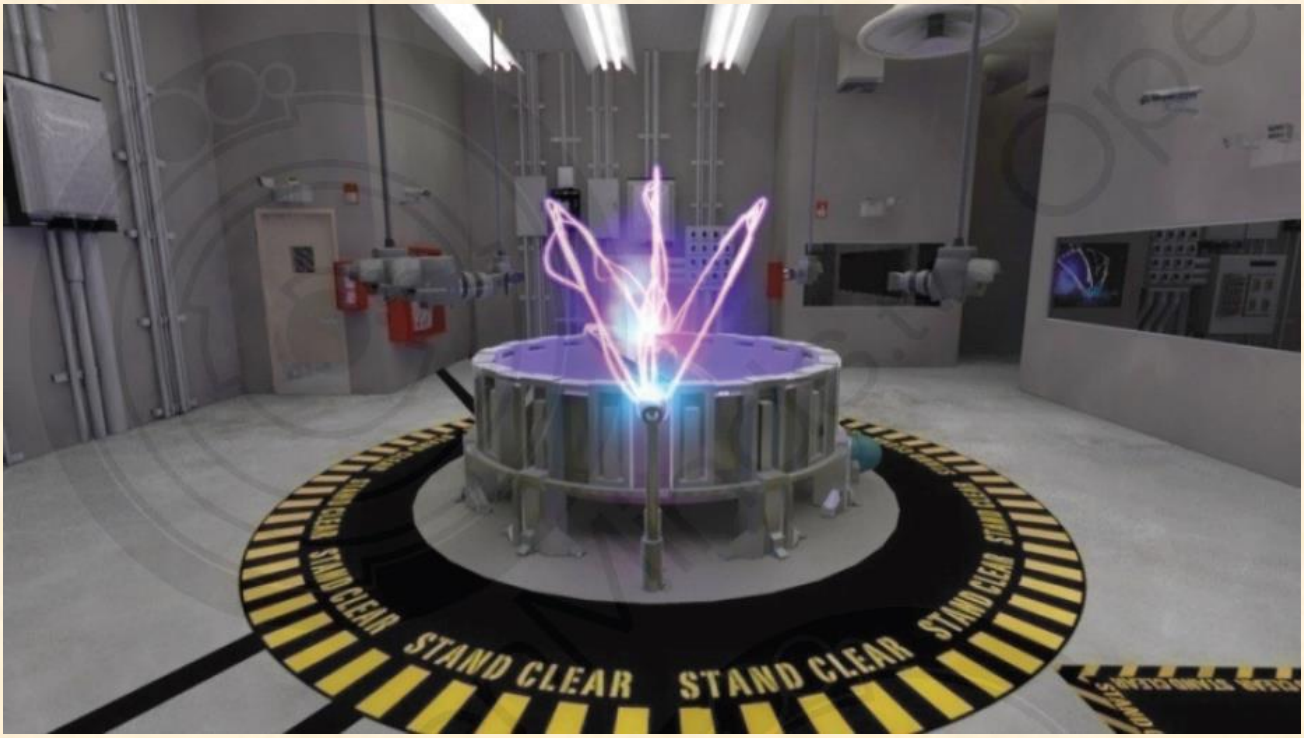
The "doctrine of the convergent timeline paradox" is well illustrated in the movie "Back to the Future - Part II".



Note electrical field arcs above Looking Glass device.*



Note double walk-ways to Looking Glass device as well as drum gimbal.*



Closeup view of Looking Glass device showing cameras, caution label on floor, and drum gimbal.*

Closeup view of Looking Glass device showing cameras, caution label on floor, and drum gimbal.*
[StealthSkater note: Looks more like the device in the movie Stargate.]

SOURCE: PROJECT AQUARIUS - (**PDF**) (Archived)

[StealthSkater note: This is a comprehensive essay that goes all the way back to Roswell. I archived it at => pdf URL-pdf]

Through the Looking Glass with Phase Conjugation
Fall 1982
Los Alamos National Laboratory

Many times in my searching through hidden documents and talking to various people, the term "Digging a very deep Rabbit Hole" comes up.

When I was looking at the tech that would be involved in 'cloaking' a secret spaceship or station, I was shown the secret of the 'Cheshire Cat' then told by the 'Rabbit' that asking about this information would attract the attention of "The Kings Men' who wouldn't be able to put 'Humpty Dumpty' together again.

I have it from a private source that over the doorway to S4 at Groom Lake is a 3D figurine of a Rabbit holding a Watch.

At first I thought this amusing. Then I realized there was more to it.

In our Stargate threads we were shown a few documents that were very interesting and led us to the "Looking Glass".

Join me now as we follow 'Alice' into the 'Rabbit Hole' and step through the "Looking Glass' at Los Alamos National Laboratory...

I would suggest d/ling this quickly they already moved the Warp Drive papers.

"I don't understand . . .' " said Alice. "It's dreadfully confusing!"

"That's the effect of living backwards," the Queen said kindly. "It always makes one a little giddy at first."

"Living backwards!" Alice repeated in great astonishment. "I never heard of such a thing!"

-Lewis Carroll

Abstract:

Imagine a mirror that reflects more light than was incident. That reflects a beam into the same direction regardless of the mirror's tilt. That eliminates image distortions by causing light rays to retrace their paths as if running backward in Time. And that when looked at allows the observer to see absolutely nothing.

Science-fiction, you say? Well, such mirrors have been the subject of intense investigation both here at Los Alamos and at other research laboratories around the World. Not only do they exist but also their practical applications may be far-reaching.

Papers:

Through the Looking Glass with Phase Conjugation - (**PDF**)(Archived)
PROJECT AQUARIUS - (**PDF**)(Archived)

One-wave optical phase conjugation mirror by actively coupling arbitrary light fields into a single-mode reflector

Rewinding the Arrow of Time via phase conjugation is an intriguing phenomena made possible by the wave property of light. To exploit this phenomenon, diverse research fields have pursed the realization of an ideal phase conjugation mirror. But an optical system that requires a single-input and a single-output beam, like 'natural' conventional mirrors has never been demonstrated.

Here, we demonstrate the realization of a one-wave optical phase conjugation mirror using a spatial light modulator. An adaptable single-mode filter is created and a phase-conjugate beam is then prepared by reverse propagation through this filter.

Our method is simple, alignment free, and fast while allowing high power throughput in the time-reversed wave which have not been simultaneously demonstrated before. Using our method, we demonstrate high throughput full-field light delivery through highly scattering biological tissue and multimode fibers (even for quantum dot fluorescence).

The light reflected from mirrors obeys the law of reflection. This limits the usage of such mirrors to simple optical components can only redirect propagating light in a specific direction. However, if the phase relationship on the mirror surface can be properly controlled, one could imagine unconventional mirrors with various different consequences.

One of the most popular types of unconventional mirror is the phase conjugation mirror (PCM) [1]. The PCM conjugates the phase on the mirror surface and causes the reflected light to rewind through the path that input light have travelled. This 'time-reversal' property of PCMs has been tried in various optical applications such as aberration canceling [2,3], pulse compression [4,5], laser resonators [6,7], holography [8], and suppression of multiple light scattering in biological tissues [9-14]. More direct demonstrations have also been performed in using acoustic waves [15] and microwaves [16] where conventional electronics can directly measure and generate the phase profile in real time.

Historically, optical PCMs have been usually aided by several non-linear optical effects such as, stimulated Brillouin backscattering [17], four-wave mixing [18], and the photorefractive effect [19]. The functionality of the non-linear PCMs rely on the interferences between input lights. Absence of electronics allows non-linear PCMs to handle large degree of optical information even in real-time. However, simultaneously, the non-linearity raises technical difficulties that limit the versatility of the PCMs (e.g., low reflectivity, signal sensitivity, as well as unwanted non-linear effects).

Inspired from the development of electronics, digital optical phase conjugation (DOPC) has recently been suggested to dodge the non-linear disadvantages [12,13,20]. The DOPC measures the input field by interferometry, and then the conjugated field is generated from the other arm with a spatial light modulator (SLM).

The idea of separation of input/output arms is especially beneficial to the amplification of conjugated light; the output light can be freely amplified regardless of the input light intensity. However, for perform the conjugation, the desired optical field should be exactly regenerated by the SLM which requires extremely precise alignment and calibration between the camera and the SLM in 6 degrees of freedom [21]. Therefore, ambient perturbations and noise can easily disable the functionality of DOPC. This vulnerability have severely discourage the practical use of DOPC.

The ideal PCM will be an optical system that requires a single input beam like conventional mirrors (Fig. 1a) as is frequently described in conceptual figures (Fig. 1b). Unfortunately, all previously demonstrated PCMs rely on separate beam paths for the input and output beams (Fig. 1c). Therefore, the requirement for the utilization of reference light and the exact 'correlation' between the input light field and the phase conjugated output beams generates all the critical issues described above.

PAPER: One-wave optical phase conjugation mirror

Changed Jan 09, 2009 11:04 am: A -- NRL WIDE BROAD AGENCY ANNOUNCEMENT - Reference-Number-BAA07-01

71-07-04 ACTIVE SONAR SIGNAL PROCESSING BASED ON TIME-REVERSAL OR PHASE-CONJUGATION

82-07-01 SPACECRAFT & OPERATIONALLY RESPONSIVE SPACE (ORS) TECHNOLOGY

The complete BAA can be found at our website:

Naval Research Laboratory
Broad Agency Announcement (BAA-07-01)

SIRIUS-M: A Symmetric-Illumination, Inertially Confined Direct Drive Materials Test Facility - (PDF)(Archived)
A.J. Schmitt, R.H. Lehmberg, J.A. Gardner, and S.E. Bodner, Fusion Technology Institute, University of Wisconsin UWFDM-651 (Sept. 1985).
Lehmberg.NRL.Memo.5980.1987.pdf

Hydrodynamic Target Response to an Induced Spatial Incoherence-Smoothed Laser Beam - (PDF)(Archived)

Dark-Field Study of Rear-Side Density Structure in Laser-Accelerated Foils - (PDF)(Archived)

Laser Beam Coherent Combining Using Multiplexed Volume Holographic Optical Elements and Phase Conjugation
NewsletterApr07.pdf

Aneurisms in Laser-Driven Blast Waves - (PDF)(Archived)

Beam Nonuniformity Effects on Laser Ablatively Accelerated Targets - (PDF)(Archived)

Optical phase conjugation: principles, techniques, and applications - Review _ Guang S. He* - (PDF)(Archived)

Optical phase conjugation in fiber-optic transmission systems - (PDF)(Archived)

"Optical Phase Conjugation in Photo refractive Materials" - Contract #F49620-85-C-0110 - United States Air Force Office of Scientific Research - (PDF)(Archived)

Our current emphasis is on a communications algorithm based on a version time-reversal signal processing called passive phase conjugation [Rouseff et al. 2001]. In this approach, one uses a receiving array and matched filters based on estimating channel's time-varying impulse response. The specific version of phase conjugate processing has two crucial communications design parameters: the length of thematched filters, and the interval at which these estimates are updated [Flynn et al. 2004]. We examine how the optimal values for these 2 parameters vary with the source-to-receiver range and with local environmental conditions.

D. Rouseff, "Intersymbol interference in underwater acoustic communications using time-reversal signal processing," J. Acoust. Soc. Am. 117, 780-788 (2005). oarousef.pdf

Propagation and Scattering in a Variable Shallow Water Waveguide - Daniel Rouseff - Applied Physics Laboratory - (PDF)(Archived)

FINITE DIFFERENCE TIME DOMAIN, FDTD… PROPAGATION MODELING - (PDF)(Archived)

SOURCE LOCATION USING TIME REVERSAL PROCESSING
Time reversal processing for source location in an urban environment (L)a) - US Army Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory - (PDF)(Archived)

Source location using time-reverse imaging - Brad Artman∗, Igor Podladtchikov and Ben Witten - (PDF)(Archived)

Time reversal processing involves the following steps. First, the sound signature produced by a source is recorded at a number of sensor locations after propagation through the complex medium. Next, the time series signatures are reversed in time. Finally, the reversed time series are emitted from the sensor locations and propagate back through the complex medium.

Because of the symmetry of the wave equation, this procedure will refocus acoustic energy at the original source location. The time reversal steps were performed using the FDTD model for the urban situation shown in Fig. 1. And Fig. 2 shows wave field snapshots of the process using 8 NLOS sensors.

In the final panel, acoustic energy can be seen focusing at the original source location shown with an 'x' in Fig. 1. In Fig. 3, the final results of time reversal processing are compared for the same case with 8 NLOS sensors, and for a case where only 3 NLOS sensors are used. Both cases find the correct source location, although the result is stronger for the case with eight sensors compared to the case with three sensors.

To apply the time reversal method in an actual urban area, the building locations, sensor locations, and time signatures are required. With this information, the method can be applied to find unknown source locations using the FDTD model as demonstrated earlier.

However, before this method could be used in practice (for example, to locate gunshots in near real time), the calculation time will need to be decreased by about 3 orders of magnitude. In addition, further study of this technique is needed to determine the resistance of the method to errors in sensor or building locations and to ambient noise.

Despite these requirements, the method could become feasible for application to a specific location with fixed and known sensor and building locations if a precomputing strategy similar to Ref. 28 was used.

JASA 2005 Time Reversal For Source Location Urban Environment
The Journal of the Acoustical Society of America - Code: JASMAN - (PDF)(Archived)

Experimental implementation of reverse time migration for nondestructive evaluation applications - (PDF)(Archived)

Table I: Partial list of waveforms tested in SignalEx.
Time-reversal Naval Postgraduate School (Smith)
Contract Number: N0001400D01150014
ompor014.pdf
http://sunspot.spawar.navy.mil/seaweb/signalex.htm - (Dead Link, Not archived)
Contract Number: N0001400D01150014 - SignalEx: Relating the Channel to Modem Performance - (PDF)(Archived)

New Information Processing Techniques for Military Systems - (PDF)(Archived)

TECHNICAL DOCUMENT 3115 May 2001 ILIR '00:SSC San Diego
In-House Laboratory Independent Research 2000 Annual Report - (PDF)(Archived)

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