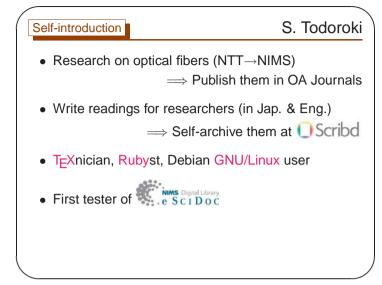


Slide 1

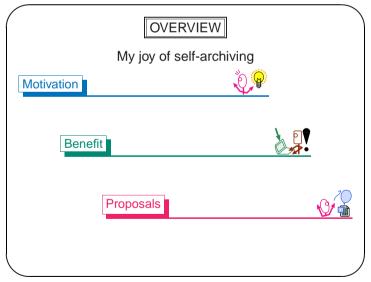
### Abstract

Since I have been publishing my research papers mainly in open access journals, most of my self-archived articles, including English translations, are originally published in domestic journals. Although such publications are not evaluated for my academic accomplishments, I continue this activity because I want to share the following two things beyond my own special field. (1) Serendipitous episodes that are not allowed to publish in academic journals and (2) knowhow that is useful for research activities. In this talk, my motivation, unexpected response to my documents and my future plans are told.

Presented in the 1st SPARC Japan seminar 2009 in Japanese. on 25th June, at National Institute of Informatics, Tokyo. http://www.nii.ac.jp/sparc/event/2009/20090625.html (Video is available at this page)



Slide 2



Slide 3

### Motivation



- My Serendipitous Experiences
- ⇒ **Serendipity** is the effect by which one accidentally discovers something fortunate, especially while looking for something else entirely unrelated. ...

— Wikipedia

(3)

Slide 4

# Motivation



# Trial to Principal

A salesperson gave me a ticket to a conference

# Zen-driven evidence

Heaven helps my experiment to pass a peer review

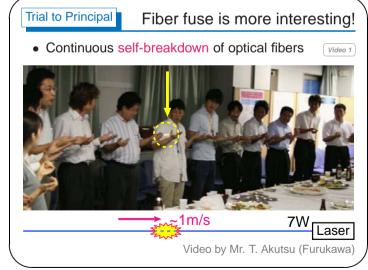
# How to call chances

What lessons these episodes gave us?

Slide 5

# Trial to Principal ■ A sales person saw my poster & offered the use of his brand-new camera. (1) t = 0 s (2) t = 1/30 s (3) t = 15/30 s (3) t = 15/30 s (4) Optical fuse breakdown Early summer in '04 How about 250,000 fs / sec?

Slide 6

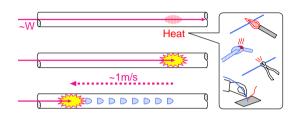


Slide 7

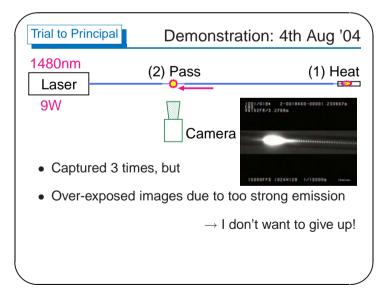
Fiber fuse

(5)

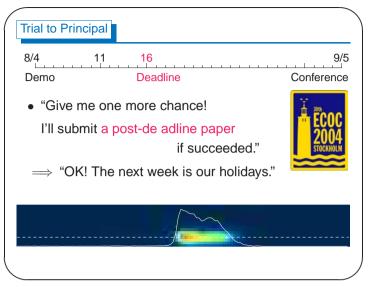
- Found in 1987
- Initiated by heat @ fiber propagating a-few-W light
- Bullet-like periodic void formation



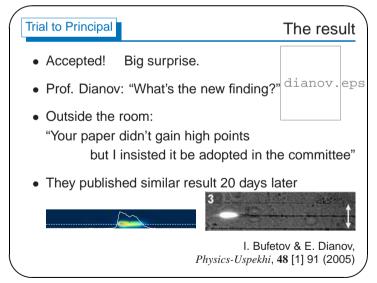
Slide 8



Slide 9



Slide 10



Slide 11



(7)

# Trial to Principal

Welcome the coming & speed up if it seems excellent.

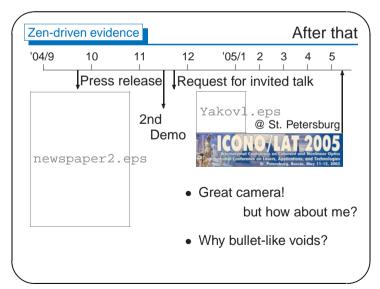
# Zen-driven evidence

Heaven helps my experiment to pass a peer review

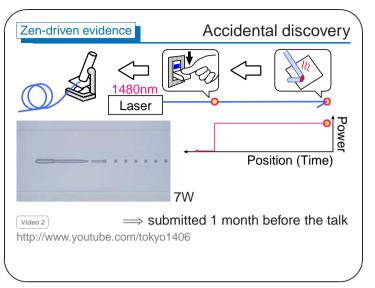
How to call chances

What lessons these episodes gave us?

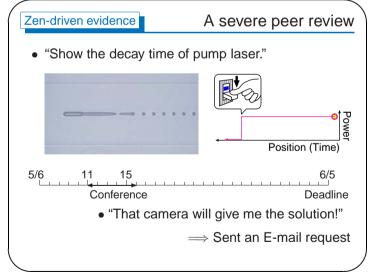
Slide 12



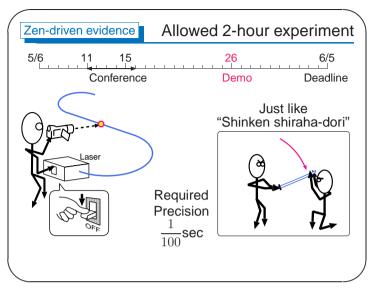
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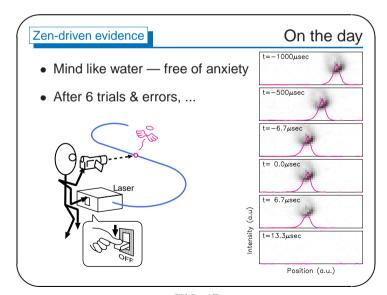
Slide 14



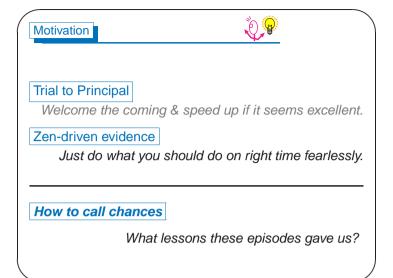
Slide 15



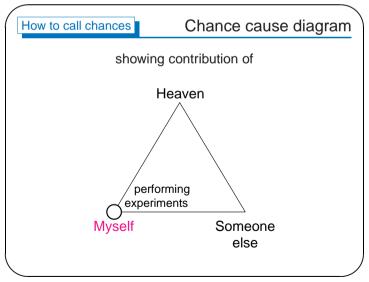
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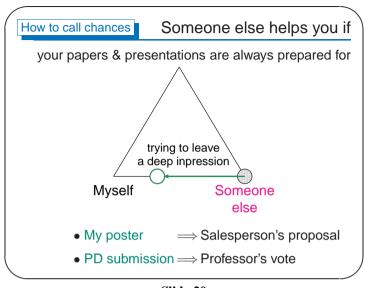
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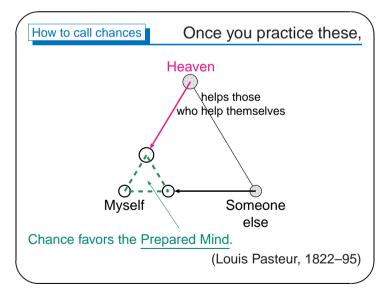
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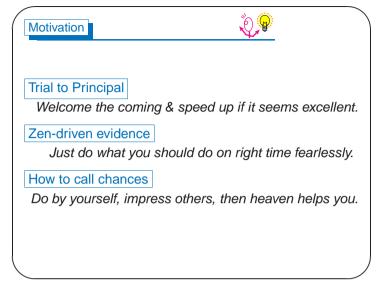
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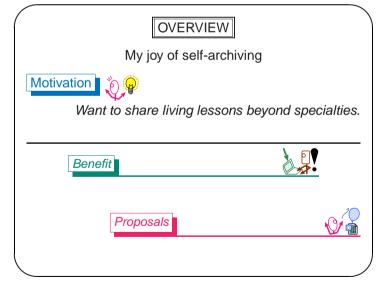
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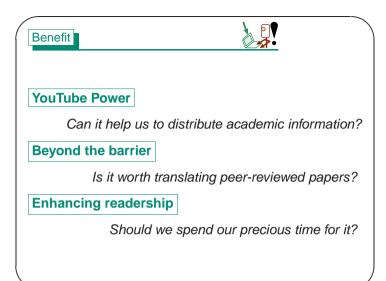
Slide 21



Slide 22



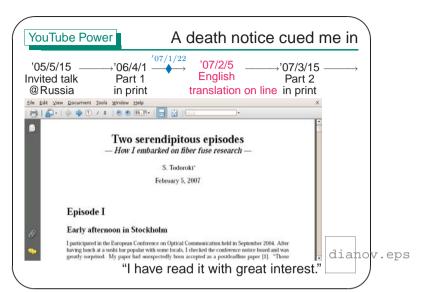
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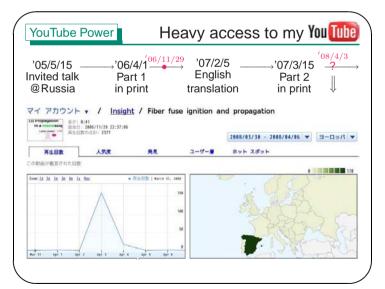
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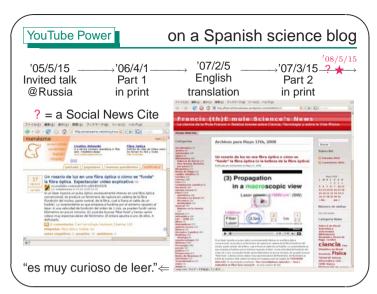
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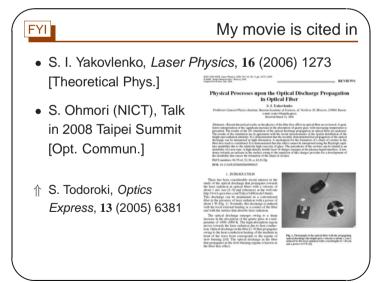
Slide 26



Slide 27



Slide 28



Slide 29

YouTube Power
Interesting short movies attract general readership

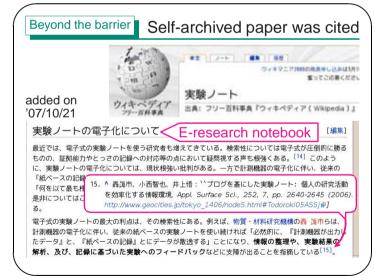
Beyond the barrier

Is it worth translating peer-reviewed papers?

Enhancing readership

Should we spend our precious time for it?

Slide 30



Slide 31

 $\uparrow$ 

at an Int'l WS

since '00/12 Blog-based

research notebook

Awareness of Blog in '04⇒

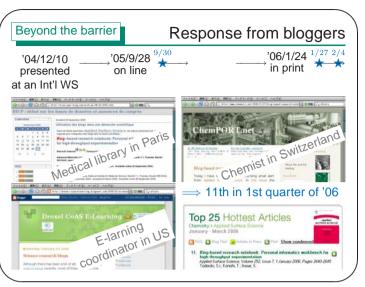


(17)

Slide 32

'04/12/10 presented at an Int'I WS	, `05/9/28 on line	'06/1/24 in print
FLSEVIER	Available online at www.sciencedirect.com	applied surface science
App	1. Surf. Sci. 252 (2006) 2640-2 ased research notebook: Personal i	
	bench for high-throughput experin	
	Shin-ichi Todoroki *, Tomoya Konishi, Satoru Advanced Materials Laborators, National Institute for Materials Science	
	Namiki 1-1, Tsukuba, Ibaraki 305-0044, Japan	796. V.
	Received 8 December 2004; accepted 24 March 2005 Available ordine 28 September 2005	

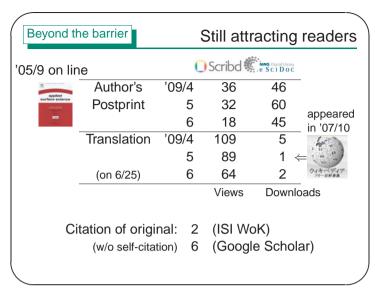
Slide 33



Slide 34



Slide 35



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### Proposal

# to Journal Publishers

- Allow to attach supporting information to E-journals
- ⇒ Translation / Abstract in Japanese

Cf. S. Todoroki: PLoS ONE, 3 [9] e3276 (2008).

$$\begin{array}{ccc}
5/30 & 7/3 & 9/4 \\
Submit \longrightarrow & Rejected \downarrow \\
to a Letter & Submit \longrightarrow & Accepted \\
& to PLoS ONE
\end{array}$$

Translation helps to find errors in original!

Slide 37





### YouTube Power

Interesting short movies attract general readership

# Beyond the barrier

Blog & Wikipedia help to grow young readership

# Enhancing readership

Should we spend our precious time for it?

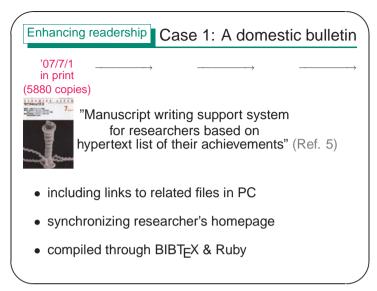
Slide 38

### Enhancing readership

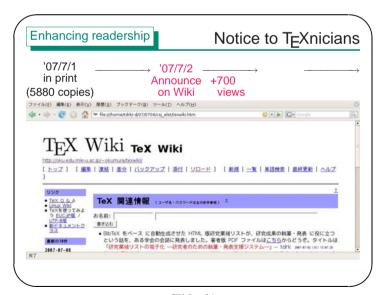
# Domestic contributions

- Requested so often, but not evaluated.
- Write attractive docs,
   publish & self-archive them at the same time
- PR on the net & monitor their access counts

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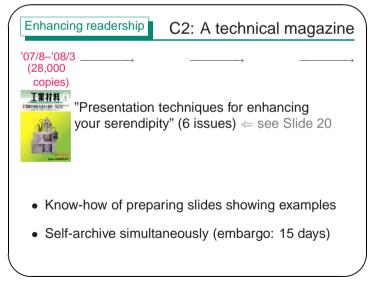
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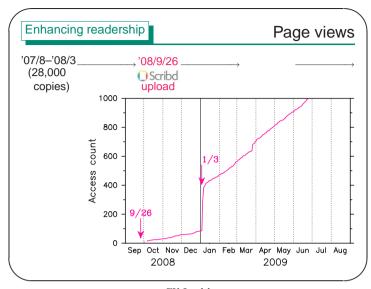
Slide 41



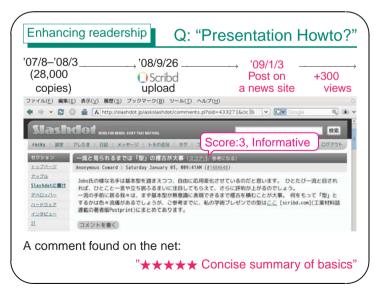
Slide 42



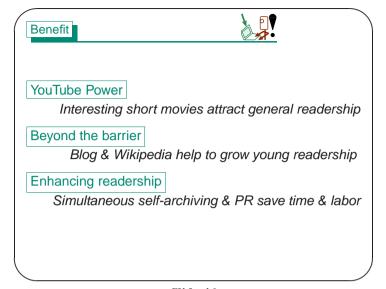
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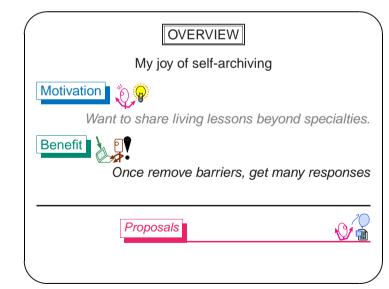
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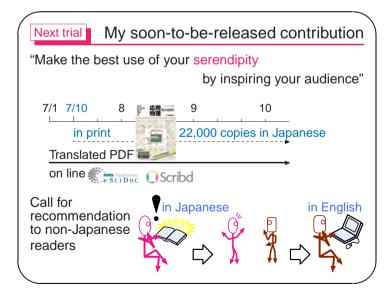
Slide 46



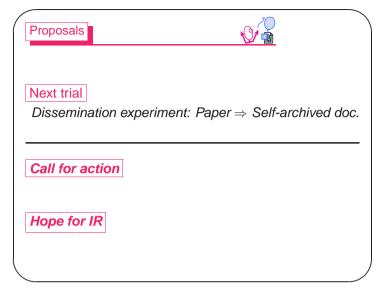
Slide 47



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Slide 49



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### Call for action

# Conclusion of this article

"Self-archiving also brings about unexpected chances"

- Enhances awareness of IR among the members of the Japan Society of Applied Physics
- ⇒ Useful for educating scholars of other fields?

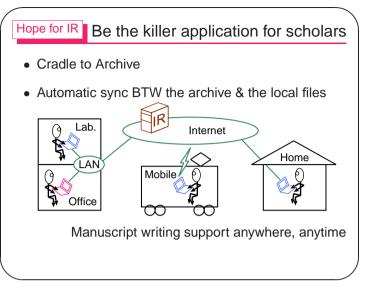
Slide 51

(27)

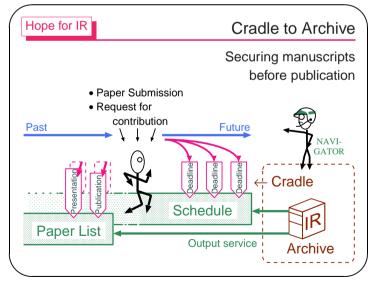
Slide 52



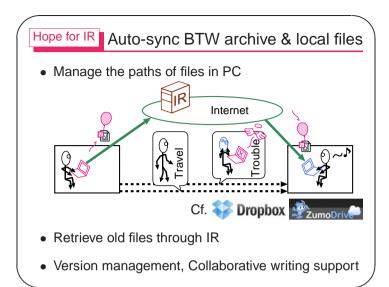
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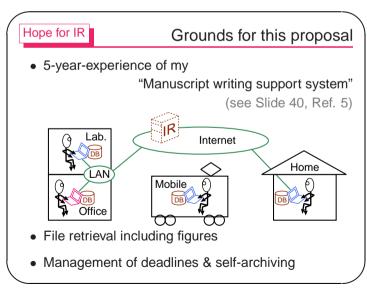
Slide 54



Slide 55



Slide 56



Slide 57





# Next trial

Dissemination experiment: Paper ⇒ Self-archived doc.

# Call for action

This article is open for education about self-archiving.

# Hope for IR

Manuscript writing support is longed-for function.

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CONCLUSION

My joy of self-archiving





Want to share living lessons beyond specialties.

Benefit



Once remove barriers, get many responses

Proposals



IR should be the killer application for scholars

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### Acknowledgement

# Thank you for their help

(31)

- Mr. K. Hanaka & Mr. K. Aizawa (Photron Ltd.)
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- Mr. H. Uchida (Nippon Electric Glass Co., Ltd.)
- Ms. A. Hasebe (Editor of Engineering Materials)
- Prof. S. Nishiyama (Chiba Univ.)
- Prof. T. Fujiwara (Tohoku Univ.)
- Ms. M. Tanifuji, Dr. M. Takaku & Dr. S. Ohtsuka (Scientific Information Office, NIMS)

### Slide 60

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# Serendipity &



- 1. S. Todoroki: "Make the best use of your serendipity by inspiring your audience". (Translated from *OYO BUTURI*, **78** [7] pp.668-671, 2009.)
- S. Todoroki: "Two serendipitous episodes How I embarked on fiber fuse research" (2007).
   (Translated from two articles; *Electric Glass*, 35, pp. 14-18, 2006 and *Engineering Materials*, 55 [4], pp. 97-101, 2007).
- S. Todoroki: "Chance favors the prepared mind" (2009). (Translated from a short essay for non-science oriented readers).

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# Self-archiving ()



 S. Todoroki: "Disseminate your work beyond your research field through self-archiving" (2008). (Translated from *Materials Integration*, 21 [12] pp.75-76, 2008).

http://www.geocities.jp/tokyo\_1406/



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# Cradle to Archive

5. S. Todoroki: "Manuscript writing support system for researchers based on hypertext list of their achievements" (2008). (Translated from *Ceramics Japan*, **42** [7] pp.520-524, 2007).



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