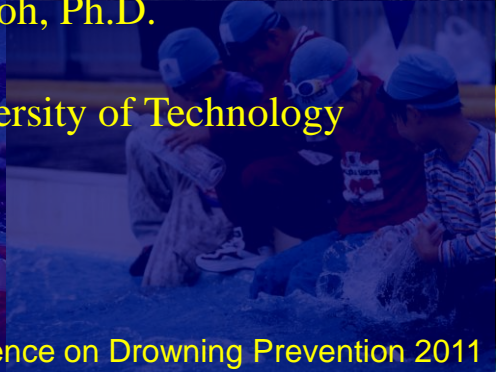
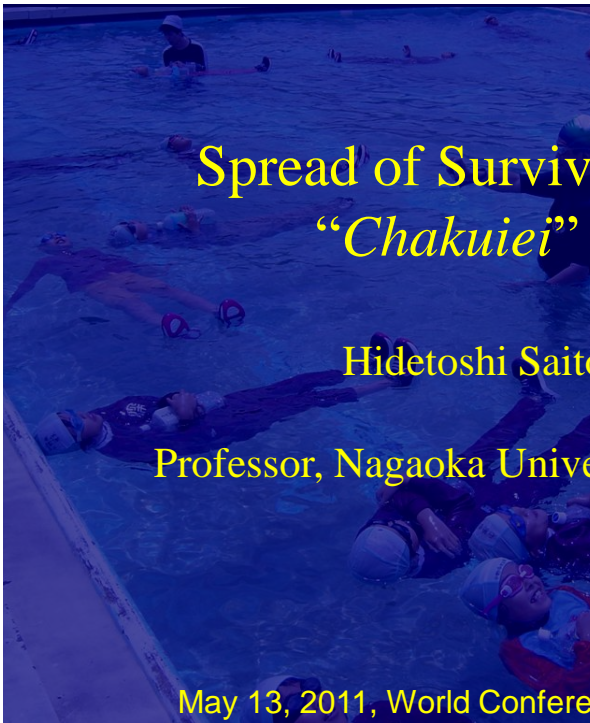




May 13, 2011, World Conference on Drowning Prevention 2011



Spread of Survival Technique “Chakuiei” in Japan

Hidetoshi Saitoh, Ph.D.

Professor, Nagaoka University of Technology

May 13, 2011, World Conference on Drowning Prevention 2011

Chakuiei (web search)

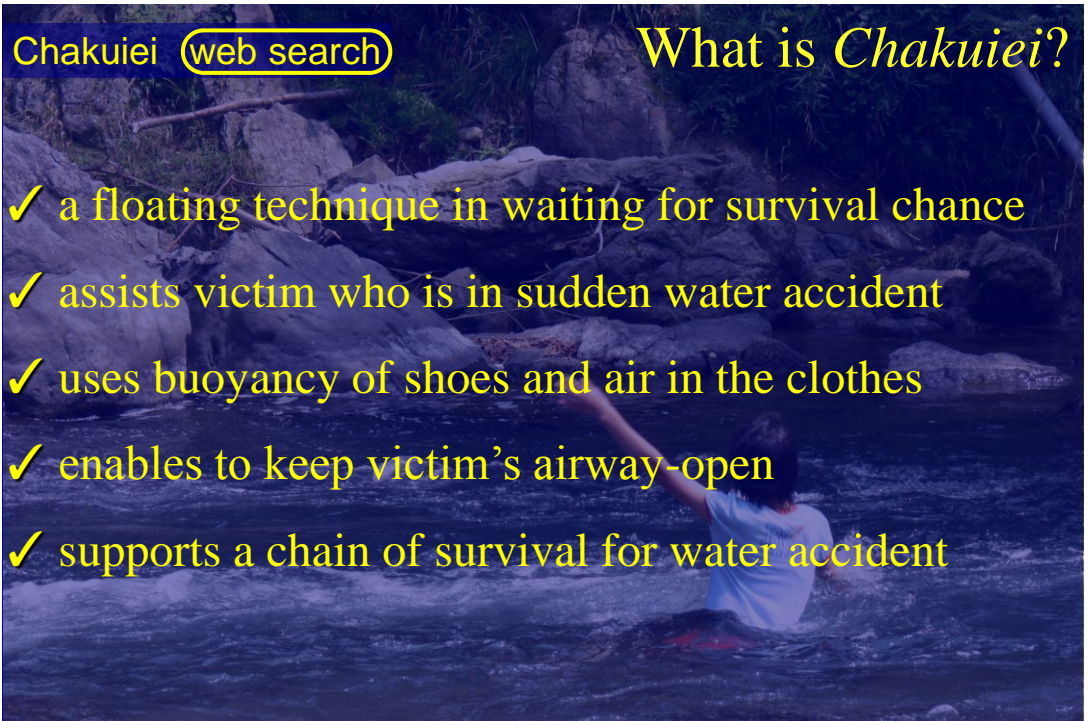
What is *Chakuiei*?



Chakuiei (web search)

What is *Chakuiei*?

- ✓ a floating technique in waiting for survival chance
- ✓ assists victim who is in sudden water accident
- ✓ uses buoyancy of shoes and air in the clothes
- ✓ enables to keep victim's airway-open
- ✓ supports a chain of survival for water accident





Chakuiei (web search)

Purpose of *Chakuiei*

Chain of Survival for Water Accident

- Effort for airway-open by victim

Chakuiei
(survival floating)



Chakuiei ([web search](#))

Purpose of *Chakuiei*

Chain of Survival for Water Accident

- Effort for airway-open by victim



Providing float object
by bystander

Chakuiei
(survival floating)



Chakuiei ([web search](#))

Purpose of *Chakuiei*

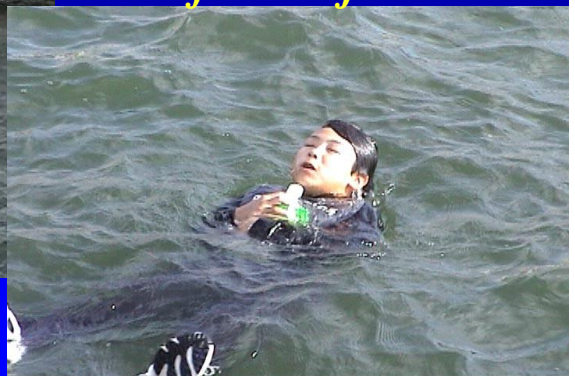
Chain of Survival for Water Accident

- Effort for airway-open by victim



Providing float object
by bystander

*Chakuiei with
float object*



Chakuiei (web search)

Purpose of *Chakuiei*

Chain of Survival for Water Accident

- Emergency call by bystander



Chakuiei (web search)

Purpose of *Chakuiei*

Chain of Survival for Water Accident

- Quick response by professional rescuers



Chakuiei ([web search](#))

Purpose of *Chakuiei*

Chain of Survival for Water Accident

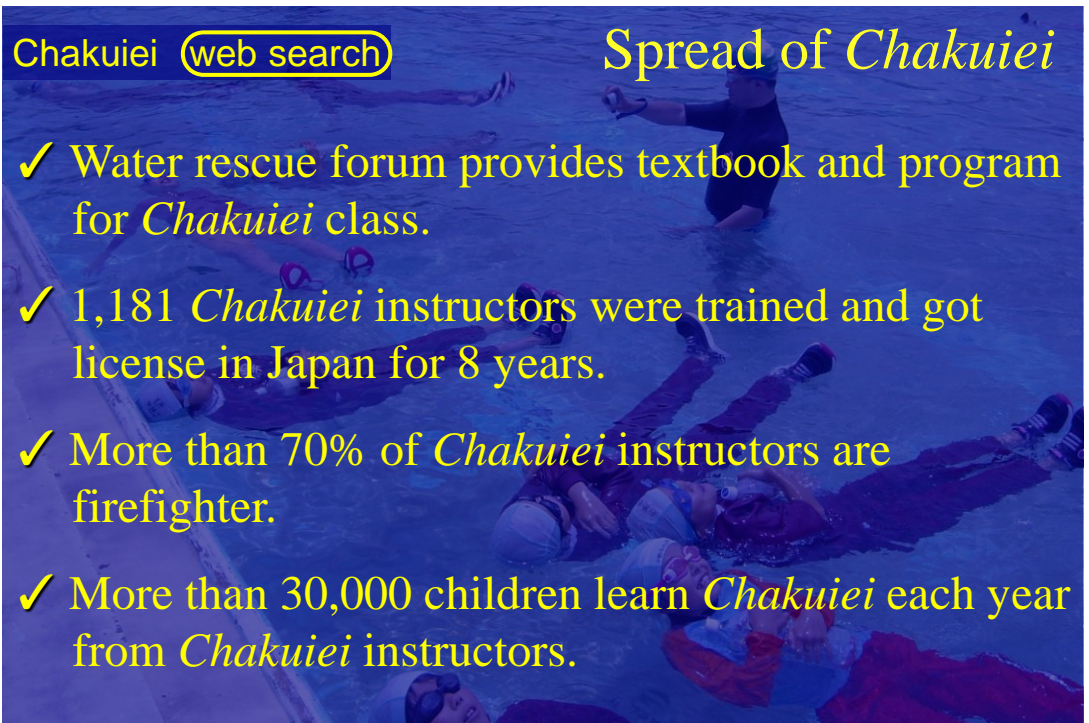
● Survival from sudden water accident



Chakuiei ([web search](#))

Spread of *Chakuiei*

- ✓ Water rescue forum provides textbook and program for *Chakuiei* class.
- ✓ 1,181 *Chakuiei* instructors were trained and got license in Japan for 8 years.
- ✓ More than 70% of *Chakuiei* instructors are firefighter.
- ✓ More than 30,000 children learn *Chakuiei* each year from *Chakuiei* instructors.



Spread of *Chakuiei*

Chakuiei skill consists of

Entry



Wading



Diving



Back float



Float



Moving



Chakuiei [web search](#)

Effect of *Chakuiei*

Annual report of water accident in 2008

Water accident over 16 year-old

○ Number of accident 1, 221

○ Number of victim 1, 370

Survived victim 775 → Survival rate 43. 4%

Source: National Police Agency annual report

Chakuiei [web search](#)

Effect of Chakuiei

Annual report of water accident in 2008

Water accident over 16 year-old

○ Number of accident 1, 221

○ Number of victim 1, 370

Survived victim 775 → Survival rate 43. 4%

Water accident under 15 year-old

○ Number of accident 214

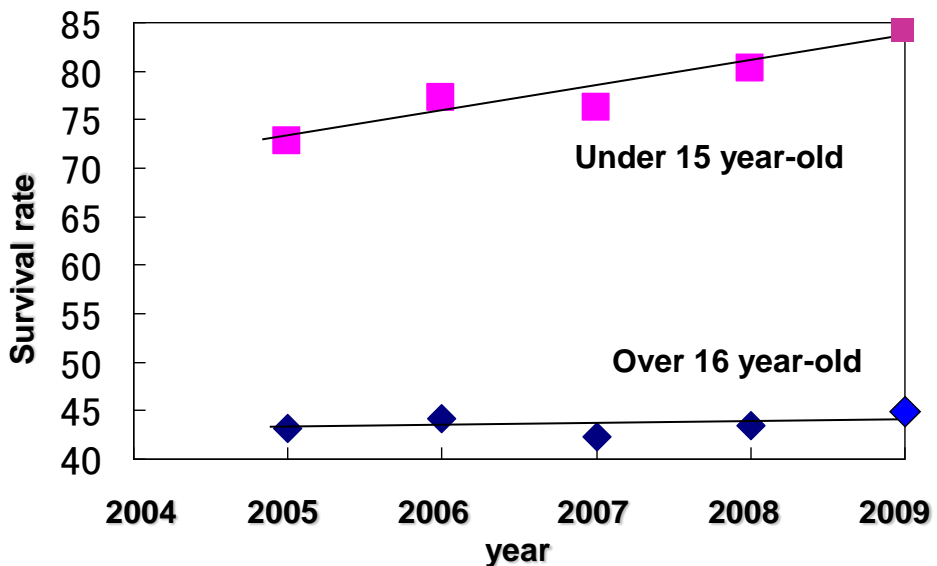
○ Number of victim 273

Survived victim 219 → Survival rate 80. 2%

Source: National Police Agency annual report

Survival rate

Effect of Chakuiei



Chakuiei ([web search](#))

Summary of *Chakuiei*

- ✓ *Chakuiei* is knowledge and skills for all people to survive from sudden water accident.
- ✓ More than 1,000 instructors spread *Chakuiei* in Japan to approximately 150,000 people for 8 years.
- ✓ Survival rate of children increases in this 5 years.
- ✓ You can get free *Chakuiei* textbook in English at web site. Search *Chakuiei* now!