

Channel	Time	Program	Description	Rating
CMT	40 Sexiest Videos	Host Lance Smith		
40 Sexiest Videos		D. Miller		
CNBC	The News on CNBC	McEnroe, (N)	The News on CNBC	
CNN	America Votes 2004	Larry King Live, (N)	America Votes 2004	
CNN/fn	Open Hse.	Lou Dobbs Tonight	Dolans Unscripted	
Comedy	MAD TV: Melissa Joan Hart; Adam Carolla; Jimmy Kimmel, (TV14)	The Graham Norton Show	Tough Crowd, (N)	
Court TV	The System: Insurance fraud bureau, (TV14)	The Investigators	Forensic Files	
C-SPAN	Democratic National Convention	(From 4:00) (Live)	Prime Time Public Affairs	
C-SPAN2	Archival Political Convention Speeches	Speeches and Newsreels From 1996-2000	Bill Clinton; Al Gore; Bob Dole	
Discovery	Bull Shark: World's Deadliest Shark, (TVPG-V)	In the Name of Science: Rocket, (N) (TVG)	Bull Shark: World's Deadliest Shark, (TVPG-V)	
Disc. Hlth.	Plastic Surgery: New York Style, (TVMA)	Berman & Berman	Plastic Surgery: New York Style, (TVPG-V)	
Disney	Double Teamed: ** Twins Heather (Poppi Monroe) and Heidi Roemer (Annie McElwain) make it to the WNBA. With Mackenzie Phillips, (2002) (TVG)	That's So Raven	Sister, Sister; Char-Char, (TVG)	
E!	The El True Hollywood Story: President Bill Clinton, (TVPG-B)	Howard Stern	The El True Hollywood Story: J. Walsh, (TVPG)	
		Howard Stern	Howard Stern	

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Mind control: More than just a plot point?

Science is poised to make it possible

By Dan Vergano
USA TODAY

Psychosurgery. Brain implants. Mind control. The stuff of movies — as in *The Manchurian Candidate*, which opens Friday — or a glimpse of the future?

Maybe both, says neurologist Jay Lombard of the Brain Behavior Center in Nyack, N.Y., who was science adviser for the film. The political thriller stars Denzel Washington as Maj. Bennett Marco, a Gulf War veteran who is tormented by dreams that suggest he was surgically brainwashed during the war. When a sergeant from his unit emerges years later as a candidate for vice president, Marco attempts to find out the truth about his dreams and the candidate.

"If you look at where things are heading in neuroscience," Lombard says, "it's not that far a stretch."

The future of neuroscience is under study this year by the President's Council on Bioethics. Opponents of "neuromarketing," the study of consumer choice using brain scans, have raised alarms about the possibility of the advertising industry using science to sell people unneeded or harmful products.

"We have capabilities we never had before," says neuroethicist Judy Illes of Stanford University. For example, imaging studies are now examining judgment and emotion in the brain, she says, and brain chip implants are treating Parkinson's and obsessive-compulsive disorder.

In *The Manchurian Candidate*, implants are inserted in the brain's pleasure centers.



By Ken Regan, Paramount Pictures

The Manchurian Candidate: Meryl Streep and Liev Schreiber star in a remake of the 1962 movie in which a soldier is brain-washed by sinister political forces. In the current movie, mind control is accomplished by brain implants.

"If you look at where things are heading in neuroscience . . . it's not that far a stretch."

—Jay Lombard, Brain Behavior Center in Nyack, N.Y.

Lombard says the concept comes from a 2002 study of "robo-rats" that were given brain implants. Scientists learned to "steer" the rats by sending jolts to pleasure centers. In the movie, brain implants trigger a euphoric feeling in victims, turning them into zombies willing to commit murder.

"The potential to do something like this eventually is completely possible," Lombard says. "And completely immoral."

Mind-control stories have been movie staples for decades, traceable to Communists brainwashing prisoners during the Korean War era. The original version of *The Manchurian Candidate* in 1962, which starred Frank Sinatra, played on this popular belief.

In recent years, Hollywood has picked up

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TCM	40 Sexiest Videos	Host Lance Smith		
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TLC	Help Wanted	(TVG)	Help Wanted, (TVG)	
TNT	Urban Legends	(TV14)	Urban Legends, (TV14)	
Toon D	Power Rangers Ninja	Digimon, (TVY7-FV)	Power Rangers Ninja, (TVY7-FV)	
Travel	Alaska Wide Open	The Addams Family	Alaska Wide Open: The treasures of Alaska, (TVG)	
TV Land	Law & Order: Special Victims Unit	Green Acres	Law & Order: Special Victims Unit, (TV14)	
USA	40 Greatest Reality Show Moments	(TV14-D)	40 Greatest Reality Show Moments, (TV14-D)	
VH1	Continental Divide	(From 7:30) (1 hr., 40 mins.) (PG)	Continental Divide, (From 7:30) (1 hr., 40 mins.) (PG)	
WE	Iron Eagle II	Soviet mission, With Louis Gossett Jr., (1988) (PG)	Iron Eagle II, Soviet mission, With Louis Gossett Jr., (1988) (PG)	
WGN	News		News	

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WGN	News		News	

on neuroscience's potential for abuse. Last year's *Psychic* and the more recent *Eternal Sunshine of the Spotless Mind* revolved around memory-erasing technology.

Neuroscientists increasingly are considering the implications of their research. The ethics of neurology is a standard topic at Society of Neuroscience meetings, Illes says. "In the past three years, I'd say, the field has become much more concerned and aware."

Much of that concern is driven by the possibility of people using brain implants to exceed their normal limits. A case discussed by the president's council this year involved a graphic artist with obsessive-compulsive disorder who became more creative under the influence of brain-implant chips. What happens, panel members wondered, when perfectly healthy people start looking to implants to boost their capabilities?

From a psychologist's viewpoint, *The Manchurian Candidate's* implant scenario sounds far off and reminiscent of some of ten-reported delusions, says Steven Hassan of the Freedom of Mind Resource Center in Somerville, Mass. "I have 30 years of doing work in this area, and I have repeatedly met people who claim aliens or the CIA implanted mind-control chips in them. I have yet to see those chips show up in brain scans."

But "mind control" is a different matter. "If you polled psychologists about whether people can exert psychological influence over others, most would likely say yes," Hassan says. Cults, for example, typically impose gradually increasing limits on behavior, information, emotions and thinking in members to control their lives.

"What we now know is it doesn't take a lot of effort," Hassan says. "The movie is a chance to have a dialogue about mind control. The truth is in our face. With terrorism, we see people can be made into killers."