Daubert and the Disappearing Jury Trial

by

Allan Kanner*
Kanner & Whiteley, L.L.C.
701 Camp Street
New Orleans, LA 70130
(504) 524-5777
a.kanner@kanner-law.com

* Founding Member, Kanner & Whiteley, P.L.L.C., New Orleans, LA; Senior Lecturing Fellow, Duke Law School, and Adjunct Professor of Law, Tulane Law School, B.A., U. Pennsylvania, 1975; J.D., Harvard Law School, 1979. The ideas expressed in this article are the authors’ and do not reflect the views of any clients.
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Introduction

In Kafka’s THE TRIAL, Josef K. is arrested for a crime unknown to him to be tried in a court he does not recognize. To help explain the situation to the bewildered prisoner, a priest offers a parable about a man seeking admittance to the law. He comes before the gate of the law, and is told by the gatekeeper that it is possible to enter, but not at this moment. The man pleads with the gatekeeper, but is denied entry. He spends his entire life before the gate, and just before his death, asks the gatekeeper, “everyone strives after the law, so how is it that in these many years no one except me has requested entry?” The gatekeeper sees that the man is near death, and shouts at him, “Here no one else can gain entry, since this entrance was assigned only to you. I’m going now to close it.” ¹

In Daubert v. Merrell Dow Pharmaceuticals, Inc.,² the Supreme Court unintentionally empowered federal judges with the seemingly divine powers of Kafka’s gatekeeper. Meant to liberalize the admittance of scientific evidence,³ the actual result has been the exact opposite. The gatekeeping role bestowed upon the judiciary has blocked more court access than it has enabled. Judges, shouldering a slew of incentives to prevent a jury trial from taking place in their court, are now empowered with a tool to do just that: the Daubert hearing. But a plaintiffs’ attorney (against whom the Daubert challenge is most used), must recognize that the gate, however outwardly insurmountable – ultimately exists, as in Kafka’s parable, only for them.⁴

Despite Daubert, and the disastrous effects it has wreaked upon the civil justice system, there are

⁴ This is not to deny that in some cases defendants use of junk science has been stopped with a Daubert motion. Nor is it to suggest that Daubert rulings are adverse threatened against both parties by settlement minded judges. However, the primary use of Daubert has been to dismiss plaintiff cases.
techniques and maneuvers so that a plaintiff does not meet the same fate as Kafka’s doomed protagonist.

This article examines the background of expert witness testimony, the Daubert case, and its companion cases. Next, the article explores the corporate influence in science – and how Daubert has allowed this corporate influence to erode true science. Incentives then came around for judges to use Daubert to kill cases, some benign and some out of sheer bias. The article looks at what the effect has been on the civil justice system, before offering some solutions and practical advice for attorneys facing a daunting Daubert hearing.

**Background: Experts**

The federal rules of evidence contain clear-cut rules concerning expert testimony and who might be considered an expert. Essentially, an expert possesses specialized knowledge that helps a juror understand a concept outside of the ordinary juror’s everyday experience.\(^5\)

**Rule 702. Testimony by Experts**

If scientific, technical, or other specialized knowledge will assist the trier of fact to understand the evidence or to determine a fact in issue, a witness qualified as an expert by knowledge, skill, experience, training, or education, may testify thereto in the form of an opinion or otherwise, if (1) the testimony is based upon sufficient facts or data, (2) the testimony is the product of reliable principles and methods, and (3) the witness has applied the principles and methods reliably to the facts of the case.\(^6\)

The rules dictate that an expert must conduct him or herself in a certain way. The expert’s opinion should be relevant to the facts of the case, and must be based on principles, methods and techniques that have been subjected to peer review and proven reliable.

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Rule 703. Bases of Opinion Testimony by Experts

The facts or data in the particular case upon which an expert bases an opinion or inference may be those perceived by or made known to the expert at or before the hearing. If of a type reasonably relied upon by experts in the particular field in forming opinions or inferences upon the subject, the facts or data need not be admissible in evidence in order for the opinion or inference to be admitted. Facts or data that are otherwise inadmissible shall not be disclosed to the jury by the proponent of the opinion or inference unless the court determines that their probative value in assisting the jury to evaluate the expert’s opinion substantially outweighs their prejudicial effect. 7

There are exceptions. 8 Non-experts are allowed to offer expert opinions. 9 Landowners or business owners may offer opinions valuing damages done to their property 10 or business. 11 Experts may also be called upon (in their expert capacity) to provide factual, not opinion testimony. 12

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8 TRIALS, § 4.02.
9 Rule 701, Fed. R. Evid. (allowing non-expert opinions or inferences “which are (a) rationally based on the perception of the perception of the witness, (b) helpful to a clear understanding of the witness’ testimony or the determination of a fact in issue, and (c) not based on scientific, technical or other specialized knowledge within scope of Rule 702”).
10 E.g., United States v. Sowards, 370 F.2d 87 (10th Cir. 1966) (opinion evidence allowed by non-experts who knew the land); Klapmeier v. Telecheck Int’l, 482 F.2d 247 (8th Cir. 1973) (owner is competent to testify as to the value of his property).
11 E.g., Boehm v. Fox, 473 F.2d 445 (10th Cir. 1973) (opinion of dairy owner on average pay to calculate compensatory damages).
12 E.g., Brown v. Ryan’s Family Steak Houses, Inc., No. 04-1351 (4th Cir. Oct. 29, 2004) (unpublished). In Brown, former employee brings a Title VII action. The proceedings can be summarized as follows: the employer moved to dismiss and compel arbitration pursuant to an arbitration agreement executed by the employee’s guardian Mrs. Gassaway (employee’s great-great aunt) when employee was sixteen years old. The employee countered that her guardian, now deceased, lacked the requisite mental capacity to enter into a binding contract when the arbitration agreement was executed. In support, the employee offered testimony from the guardian’s treating physician of sixteen years, Dr. John Sanders, who opined that the guardian was in mental decline due to brain atrophy during the relevant time. The district court denied the employer’s motion to dismiss on magistrate’s recommendation, and the employer appealed. The admissibility was affirmed. The physician’s diagnosis of guardian’s ailments was not required to satisfy Daubert, because the physician was a fact witness describing the patient’s condition. The physician’s opinion of the guardian’s mental capacity was admissible as a lay opinion under Rule 701. “Furthermore, Dr. Sanders is the most qualified person available to testify to Mrs. Gassaway’s mental capacity. Gassaway has passed away and is not available for further medical examination. Dr. Sanders was her treating physician for sixteen years. The fact that his practice is internal medicine rather than neurology does not negate the fact that he is a qualified physician with more first-hand knowledge concerning Gassaway’s physical and mental well-being than any other medical professional.” Id.
On the other hand, some expert proof may run afoul of other rules. For example, experts cannot give unduly prejudicial testimony.\textsuperscript{13} Also, experts cannot give legal opinions in most cases.\textsuperscript{14}

\textit{Daubert v. Merrell Dow Pharmaceuticals, Inc.},\textsuperscript{15} as explained below, was a reaction to the perceived proliferation of bad experts in federal courts. At the time, some legal scholars felt that some putative experts were neither objective nor neutral. Scientists, of course, work harder at being objective because of the limits and goals of their scientific disciplines, but this does not mean that personal preference, greed, or ideology never clouds their research. The scientific community has its share of ambition, censorship, prejudice, plagiarism, and manipulation of data.\textsuperscript{16} Against this backdrop, \textit{Daubert} makes sense. But the road to hell is paved with good intentions.

\textbf{Daubert v. Merrell Dow Pharmaceuticals}

\textbf{Before Daubert: The Frye Standard}

Judge Learned Hand observed at the turn of the century that expert evidence is worthless to a fact-finder if it is not reliable.\textsuperscript{17} Since evidence that was not reliable was not relevant, standards for reliability had to be established. The federal judiciary, seeking a standard regarding the reliability of scientific proof, eventually settled on the standard espoused in \textit{Frye v. United States}.\textsuperscript{18}

\textsuperscript{13} \textbf{FED. R. EVID.} 403.
\textsuperscript{14} \textit{E.g.}, State of New York v. Westwood-Squib, 2001 U.S.Dist. LEXIS 11765 (W.D.N.Y. 2001) (disallowing legal opinion on allocation of hazardous waste liabilities among responsible parties); United States v. Phillips, 478 F.2d 743 (9th Cir. 1973) (violation of narcotics laws; mixed questions of law and fact).
\textsuperscript{15} 509 U.S. 579 (1993).
\textsuperscript{17} Judge Learned Hand, \textit{Historical and Practical Considerations Regarding Expert Testimony}, 15 \textit{HARV. L. REV.} 40 (1901-02).
\textsuperscript{18} \textit{Frye v. U.S.}, 293 F. 1013 (D.C.Cir. 1923).
In Frye, the trial court in a murder trial refused to admit the defendant’s systolic blood pressure test to show his truthfulness. The defendant was convicted, and the D.C. Circuit Court of Appeals heard the case on the issue of whether the test ought to have been admitted. In the following famous passage, the court notes:

> Just when a scientific principle or discovery crosses the line between the experimental and demonstrable stages is difficult to define. Somewhere in this twilight zone the evidential forces of the principle must be recognized, and while courts will go a long way in admitting expert testimony deduced from a well-recognized scientific principle of discovery, the thing from which the deduction is made must be sufficiently established to have gained general acceptance in the particular field in which it belongs.  

Under Frye, a theory must undergo two stages before it can be accepted as reliable in a courtroom. The scientific community first develops a theory (presumably using the scientific method). After the results of the theory are published, it is then subjected to peer review. In the second stage, peer review accepts the theory allowing its use in a courtroom. The Frye standard for peer review acceptance is “general acceptance” in the relevant scientific community.

Thus, lawyers seeking to admit evidence or expert testimony under the Frye standard must show “general acceptance” of the theory. This can be done by offering other judicial decisions, testimony by a scientist’s peers, and scientific journals or other publications.

Novel theories and novel scientific evidence were the most unlikely candidates to pass the Frye standard. As one commentator notes:

> Polygraphy, graphology, hypnotic and drug induced testimony, voice stress analysis, voice spectrograms, ion microprobe mass spectroscopy, infrared sensing of aircraft, retesting of breath samples for alcohol content, psychological profiles of battered women, and child abusers, post traumatic stress disorder as
indicating rape, astronomical calculations, and blood group typing, all have fallen prey to [Frye’s] influence.\textsuperscript{21}

The issuance of the Federal Rules of Evidence in 1975 hatched concerns that Frye’s discriminatory application against novel theories went against the spirit of the Rules. Decades later, the Supreme Court would address these concerns.

\textbf{A Case About Bendectin}

Bendectin was an anti-nausea drug marketed by Merrell Dow pharmaceuticals with pregnant women in mind. Instances arose whereby some children born to mothers whom had ingested Bendectin suffered serious birth defects. The question remained whether Bendectin caused those birth defects.

In 1993, the parents of two children with serious birth defects born to mothers whom had ingested Bendectin sued Merrell Dow.\textsuperscript{22} The case was removed to federal court, where the defendant produced expert testimony at a pre-trial hearing that Bendectin in fact causes no birth defects.\textsuperscript{23} The court turned to consider the admissibility of the testimony of the plaintiff’s expert interpreting epidemiological studies by others.

Based on the defendant’s expert, the plaintiff’s expert testimony was rejected by the trial court and the Ninth Circuit Court of Appeals under the Frye standard. The case was appealed to the U.S. Supreme Court.

\textbf{Daubert and the Goal of Liberalizing the Admissibility of Evidence}

The Supreme Court held that the adoption of Rules 702 and 703 had effectively liberalized and overruled the Frye test, “given the Rules' permissive backdrop and their inclusion

\textsuperscript{23} Id.
of a specific rule on expert testimony that does not mention ‘general acceptance’.”

It substituted a case-specific inquiry by the trial judge, applicable not only to “unconventional evidence” but to other scientific testimony.

In its reasoning, the Court noted that Rule 702 had superseded Frye’s “general acceptance” test, because it was deemed at odds with the “liberal thrust” of the Federal Rules of Evidence. After reviewing Rule 702, the Court noted that “[n]othing in the text of this Rule establishes ‘general acceptance’ as an absolute prerequisite to admissibility.” When Frye provided the governing test, the standard for the admission of expert testimony focused upon the question of scientific consensus rather than the quality of the scientific method.

The Supreme Court characterized the Frye test as “austere.” Specifically, Justice Blackmun explained that:

The drafting history [of the FRE] makes no mention of Frye, and a rigid “general acceptance” requirement would be at odds with the “liberal thrust” of the Federal Rules and their “general approach” of relaxing the traditional barriers to “opinion” testimony.

A unanimous Court agreed that nothing in the text of Rule 702 established “general acceptance” as an absolute prerequisite to admissibility. They found, given the “Rules’ permissive backdrop,” the assertion that they somehow “assimilated Frye . . . [is] unconvincing.” Consequently, the majority sought to articulate an alternative (and ostensibly more liberal) standard in accordance with the FRE.

24 509 U.S. at 589.
27 Daubert v. Merrell Dow Pharmaceuticals, Inc. at 589.
28 Id. at 588.
29 Daubert at 588-89.
30 Id. at 589.
Rule 702 provides that “[i]f scientific, technical, or other specialized knowledge will assist the trier of fact to understand the evidence or to determine a fact in issue,” an expert “may testify thereto.”\textsuperscript{31} The Daubert court interpreted this rule to impose two distinct requirements in the case of scientific expert evidence:

(1) The evidence must be reliable, that is, the underlying methodology and procedure from which evidence is derived (not the conclusion drawn) must be based on scientific knowledge. The district court acts as a gate keeper under Federal Rule of Evidence 104(a) and makes a preliminary assessment of whether the reasoning or methodology underlying the testimony is scientifically valid. In deciding if the testimony is scientifically valid, the court looks to many factors, including whether the theory or technique can and has been tested, whether it has been subjected to peer review, the known or potential rate of error, and whether it has been generally accepted.

(2) The evidence must be relevant, that is, it must assist the trier of fact either in understanding the evidence or in determining a fact in issue.\textsuperscript{32}

The Court in Daubert added that federal courts would also evaluate admissibility under other applicable federal rules. It specifically noted Rule 703, which limits facts or data upon which experts may rely to that “reasonably relied upon by experts in the particular field,”\textsuperscript{33} and Rule 104, which permits the court to exclude relevant evidence if “its probative value is substantially outweighed by the danger of unfair prejudice, confusion of the issues, or misleading the jury.”\textsuperscript{34}

In closing, the Daubert court addressed defendants’ concern that abandonment of the general acceptance test would result in a “free-for-all” before the jury. Defendants would continue to have available the traditional means of attacking admissible evidence: “[v]igorous

\begin{footnotesize}
\begin{enumerate}
\item \textsuperscript{31} FED.R.EVID. 702.
\item \textsuperscript{32} Daubert at 589.
\item \textsuperscript{33} Daubert v. Merrell Dow Pharmaceuticals, Inc., 509 U.S. 579 (1993).
\item \textsuperscript{34} Daubert at 595.
\end{enumerate}
\end{footnotesize}
cross-examination, presentation of contrary evidence, and careful instruction on the burden of proof.”

Thus, it is important to remember that the goal of Daubert was to make it easier for plaintiffs’ to present novel theories to juries, not harder.

**Daubert’s Directive to the Federal Judiciary**

Daubert is a confusing case for the federal judiciary to interpret. Justice Rehnquist, in his dissent, noted that “[q]uestions arise simply from reading this part of the Court’s opinion, and countless more questions will surely arise when hundreds of district judges try to apply its teaching to particular offers of expert testimony.” What exactly constituted the directive to the federal judiciary has been the subject of countless law review articles, and the Supreme Court has revisited the case on multiple occasions.

Under Daubert, a trial court judge faced with a proffer of expert scientific testimony must determine whether the expert is proposing to testify to (1) scientific knowledge that (2) will assist the trier of fact to understand or determine a fact at issue. The Daubert court noted that many factors will bear on the inquiry and stated that it was not setting out a definitive checklist or test. Because Rule 702 clearly implies some degree of regulation, the Daubert court imposed

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35 Daubert at 591 (1993). Since Daubert was decided, several circuits have applied it in affirming district court exclusion of expert testimony under the Frye standard. In re Paoli R.R. Yard PCB Litig., 35 F.3d 717 (3d Cir. 1994), not overruled, but called into question by Amorgianos v. AMTRAK, 137 F.Supp.2d 147, 164 (E.D.N.Y. 2001); United States v. Jones, 24 F.3d 1177 (9th Cir. 1994) (affirming exclusion of expert testimony concerning voice identification); O’Conner v. Commonwealth Edison Co., 13 F.3d 1090 (7th Cir. 1994) (affirming exclusion of expert testimony that plaintiff’s cataracts were caused by a radiation dose thousands of times less than that commonly believed by experts to be required to cause this condition). Some courts not following the Federal Rules of Evidence have declined to apply a Daubert-type analysis, instead opting for the more restrictive Kelly/Frye general acceptance test. See, e.g., People v. Leahy, 882 P.2d 321 (Cal. 1994); State v. Coon, 974 P.2d 386, 395 (Alas. 1999).


38 509 U.S. at 592-593 and n 11.
conditions: “The subject of an expert’s testimony must be ‘scientific . . . knowledge’,” that is, “an inference or assertion must be derived by the scientific method.”39 In order to determine whether proffered evidence is “scientific knowledge” that “will assist the trier of fact [usually the jury] to understand or determine a fact in issue” the majority provided a list of criteria (hereafter the Daubert criteria) to assist the trial judge’s assessment:

1. whether the expert’s theory is testable;
2. whether the theory has been submitted for publication and peer review;
3. whether a rate or margin of error applies to the technique or theory used by the expert;
4. whether standards and controls exist and are maintained under the technique or theory; and
5. whether and to what degree the theory has been accepted within the scientific community.40

Generally, the Daubert criteria are known as four criteria (combining two of the above):

1. whether the method upon which the testimony is based are centered upon a testable hypothesis;
2. the known or potential rate of error associated with the method;
3. whether the method has been subject to peer review; and
4. whether the method is generally accepted in the relevant scientific community.

Notwithstanding the provision of specific criteria, the majority explained that any inquiry under Rule 702 should be “flexible.”41 In consequence, these factors were characterized as indicative rather than a “definitive checklist or test.”42

Does Daubert Undermine the Seventh Amendment?

Although the purported goal of Daubert is to liberalize the admissibility of expert evidence, it also deputizes federal judges as amateur scientist gatekeepers. Justice Rehnquist, who concurred and dissented in part, questioned this aspect of the Court’s holding:

39 Daubert at 589-90.
41 Daubert at 593.
42 Id.
I do not doubt that Rule 702 confides to the judge some gatekeeping responsibility in deciding questions of the admissibility of proffered expert testimony. But I do not think it imposes on them either the obligation or the authority to become amateur scientists in order to perform that role.43

In their role as amateur scientists, judges examine a theory, gather opposing facts about it, and then attempt to make a “reasoned judgment” about which set of facts are correct. Traditionally, this has been a role for American juries, not judges.44 In this sense Daubert might very well be said to undermine the Seventh Amendment’s right to a jury trial.

The Seventh Amendment to the Constitution states:

In Suits at common law, where the value in controversy shall exceed twenty dollars, the right of trial by jury shall be pre-served, and no fact tried by a jury, shall be otherwise reexamined in any Court of the United States, than according to the rules of the common law.45

According to case law, an issue is submitted to the jury if reasonable people might differ on the conclusions to be reached based on the evidence.46 Courts have also maintained that it is not the role of the judge to determine facts for the jury.47 Expert opinion, when based on facts that sustain it, ought to have the force of a fact at the trial level.48

Thus, it would seem that the American judiciary has embraced the notion that the Seventh Amendment includes the right to have one’s expert testimony heard by a jury. However, the judge who acts as a gatekeeper at a Daubert hearing (where he is acting in the role of a juror), is essentially blocking a litigant’s right to a jury trial.

43 Daubert at 600-601.
45 See, also, Raytheon Mfg. Co. v. Radio Corp. of America, 76 F.2d 943 (1st Cir. 1935) (holding that neither Congress nor the courts can deprive a litigant of their right to a trial by jury).
46 Helene Curtis Industries Inc. v. Pruitt, 385 F.2d 841 (5th Cir. 1967).
47 Garcia v. Murphy Pacific Marine Salvaging Co., 476 F.2d 303 (5th Cir. 1973).
Daubert’s Evolution: The Companion Cases

Two cases further refined the Supreme Court’s Daubert analysis: General Electric Company v. Joiner in 1997 and Kumho Tire v. Carmichael in 1999. In these cases, the Court seems to back away from its analysis of Daubert as liberalizing the admittance of evidence. As Justice Rehnquist, who earlier worried in his Daubert dissent about abuse of this power by district court judges, writes in General Electric Company, “[t]hus, while the Federal Rules of Evidence allow district courts to admit a somewhat broader range of scientific testimony than would have been admissible under Frye, they leave in place the ‘gatekeeper’ role of the trial judge in screening such evidence.”

General Electric Company v. Joinder

General Electric involved the proper standard of review for an appellate court looking at a district court’s ruling on a Daubert motion. The court held the notion “that abuse of discretion is the proper standard of review of a district court’s evidentiary rulings” also applied to Daubert rulings.

The Court acknowledges that “[c]ases arise where it is very much a matter of discretion with the court whether to receive or exclude the evidence.” Despite the concession that discretionary judges can sink or float cases at will, the Court maintains that such discretionary decisions should only be overturned if “manifestly erroneous.”

In practice, the Supreme Court has empowered district court judges with the authority to avoid trying a case on the merits. As will be discussed below, the results of this grant of power

51 Id. at 140.
52 Id.
53 Id.
54 Id.
has been disastrous for the civil justice system. Ultimately, if a district court judge does not want to try a case, he or she can find a way to avoid doing so.

**Kuhmo Tire v. Carmichael**

The Court next addressed the extent to which Daubert’s gatekeeper role extended. In *Kuhmo Tire v. Carmichael*, the Court held that this role extended not only to scientific testimony but to all expert testimony. This includes such fields as engineering or other “specialized knowledge.” The Court ruled that the Daubert criteria, while originally established for scientific evidence, could be used to evaluate other types of expertise, and that Daubert’s fundamental holding, that an expert’s testimony must be both relevant and reliable, applies to all experts.

Since then, courts continue to apply Daubert factors of which the majority in Kuhmo Tire probably never conceived. The following expert testimony has faced Daubert challenges in certain cases: testimony by an appraiser, an expert in police procedures, an engineer, a lawyer testifying about attorney’s fees, a helicopter pilot, a helicopter mechanic, an economist, an accountant, and a police officer (as an expert in drug trafficking).

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55 Kuhmo Tire at 147-48.
56 Id. at 137.
63 Id.
The Federal Rules of Evidence

The drafters of the federal rules amended Federal Rule of Evidence 702 in 2000 to conform to, or enrich, the Supreme Court's definition of the district court's inquiry in Daubert:

If scientific, technical or other specialized knowledge will assist the trier of fact to understand the evidence or to determine a fact in issue, a witness qualified as an expert by knowledge, skill, experience, training, or education. may testify thereto in the form of an opinion or otherwise, if (1) the testimony is based upon sufficient facts or data, (2) the testimony is the product of reliable principles and methods, and (3) the witness has applied the principles and methods reliably to the facts of the case.67

The trial court will then attempt to understand and critically evaluate the expert's scientific or technical methodology, even when that evaluation determines the outcome of a case. The federal trial courts were thus assigned a substantial task, well beyond the parameters of the general acceptance test of Frye: validation of the scientific technique that the expert employs in its broader application and its case-specific use.

Later Caselaw

Since the Daubert-Joiner-Kuhmo trilogy and the modification of Rule 702, the Supreme Court has been conservative in upholding the admission of expert witness testimony. Weisgram v. Marley Company68 resolved a circuit split regarding Rule 50. The Supreme Court held that an appellate court has the power to direct a judgment as a matter of law when, after determining that evidence was erroneously admitted at trial, it finds the evidence insufficient for a submissible case.69 A court of appeals may therefore throw out expert testimony, find remaining evidence insufficient, and proceed to grant a judgment notwithstanding the verdict.

67 FED.R.EVID. 702.
69 Id. at 441.
The Court rejected the plaintiff’s argument for an “automatic remand.”\textsuperscript{70} It focused on the fact that \textit{Daubert} has put litigants on notice. “It is implausible to suggest, post-\textit{Daubert}, that parties will initially present less than their best expert evidence in the expectation of a second chance should their first try fail.”\textsuperscript{71} Since \textit{Daubert}, plaintiffs have notice of the “exacting standards of reliability.”\textsuperscript{72}

Later appellate courts have not exercised this power, however. The court in \textit{Toole v. Baxter Healthcare Corp.}, \textsuperscript{73} noted, “[w]e review a trial court’s evidentiary rulings on the admission of expert witness testimony for abuse of discretion.”\textsuperscript{74}

Some appellate courts have been lenient as to when \textit{Daubert} applies and how closely it should be followed. One court found that there is no requirement that a district court always hold a \textit{Daubert} hearing prior to qualifying an expert witness under Fed. R. Evid. 702.\textsuperscript{75} Rule 702 permits a district court to allow the testimony of a witness whose knowledge, skill, training, experience, or education will assist a trier of fact in understanding an area involving specialized subject matter.\textsuperscript{76} Courts conform to the \textit{Daubert} factors\textsuperscript{77} to various extents. The court in \textit{Fillebrown v. Steelcase, Inc.}\textsuperscript{78} noted:

\begin{quote}
The \textit{Daubert} test for reliability is flexible and \textit{Daubert’s} list of specific factors neither necessarily nor exclusively applies to all experts or in every case.
\end{quote}

\textsuperscript{70} Id.
\textsuperscript{71} Id. at 442.
\textsuperscript{72} Id. at 455.
\textsuperscript{73} Toole v. Baxter Healthcare Corp., 235 F.3d 1307 (11th Cir. 2000).
\textsuperscript{74} Id. at 1312.
\textsuperscript{75} United States v. Solorio-Tafolla, 324 F.3d 964 (8th Cir. 2003).
\textsuperscript{76} United States v. Solorio-Tafolla, 324 F.3d 964, 965 (8th Cir. 2003). \textit{Cf.} United States v. Alatorre, 222 F.3d 1098 (9th Cir. 2000).
\textsuperscript{77} The \textit{Daubert} factors are: (1) whether the scientific theory or technique can be tested, (2) whether it has been subject to peer review and publication, (3) the known or potential rate of error associated with the technique, and (4) whether the theory or technique has gained “general acceptance.” \textit{Daubert} v. Merrell Dow Pharm., 509 U.S. 579, 593-95 (1993).
Corporate Influence in Science: The “Junk Science” Revolution

Once thought of as a domain where policy-makers might go for objective research, much science today is dominated more by a desire to protect industry than arrive at the truth. In short, science is in play. And no group is playing harder than corporations who must answer with money damages when scientists label their products as dangerous.

For the decades before Daubert, a new consciousness among Americans regarding environmental and product safety led to an increase in such suits. The asbestos lawsuits raised many industry fears regarding the extent of their own liability.

Industry responded by trying to influence public policy and close the courts to injured parties. The Manhattan institute, a corporate-funded think tank, working with pro-industry activist Peter Huber, began a blitzkrieg campaign to promote the phrase “junk science.” As a backdrop to this campaign was Huber’s widely read book, GALILEO’S REVENGE.79 Huber’s definition of junk-science leaves open plenty of room for interpretation:

Junk science is the mirror image of real science, with much of the same form but none of the substance. . . . It is a hodgepodge of biased data, spurious inference, and logical legerdemain. . . . It is a catalog of every conceivable kind of error: data dredging, wishful thinking, truculent dogmatism, and, now and again, outright fraud.80

In other words, “junk science” is any science that the beholder (or judge) does not agree with. Any science that goes against one’s preconceived notions about which products are safe and which are not can conceivably meet this definition. Industry think tanks invented a new label for pro-industry judges to affix to plaintiffs with whom they personally disagreed.

Huber’s influence cannot be understated. Ninth Circuit Court of Appeals Justice Alex Kozinski used Huber’s conception of good science in the pre-remanded Daubert decision.

80 Id.
Kozinski wrote that caselaw “reflect[s] a well-founded skepticism of the scientific value of the reanalysis methodology employed by plaintiffs’ experts; they recognize that ‘[t]he best test of certainty we have is good science – the science of publication, replication, and verification, the science of consensus and peer review.’”

Industry continued to infiltrate the ranks of science and medicine. Industry-funding of University science departments has climbed significantly in recent years. Gifts from industry to drug-prescribing physicians are now the norm. The tobacco industry has hired actors with science degrees to change public opinion on secondhand smoke. Many scientists are even pressured regarding the subject matter of their research.

There is a battle underway for the soul of science. On the one hand are objective researchers. Environmental and social groups do not have the funding to fund their own research to meet their ideological needs. And opposed to objective research are the industry scientists, whose allegiance lies with their corporate backers, rather than the truth. Generally, a jury will be able to determine the motivations of each side. But there are some pro-industry members of the judiciary, armed with Daubert, who are making sure the jury never has that opportunity.

The Judiciary Today and the Abuse of Daubert

It is easy, by very ingenious and astute construction, to evade the force of almost any statute, where a court is so disposed.

Justice Grier, Pillow v. Roberts.

81 Daubert v. Merrell Dow Pharmaceuticals, Inc., 951 F.2d 1128 (9th Cir. 1991) (quoting P. HUBER, GALILEO’S REVENGE at 228 (1991)).
It is never the Law itself that is in the wrong: it is always some wicked interpreter of the Law that has corrupted and abused it.

Jeremy Bentham.\textsuperscript{87}

The combination of motive and opportunity is dangerous, especially when judges have incentives to prevent a litigant from enjoying his right to a jury trial. The incentives for judges to dismiss cases are borne from increasing caseloads, insufficient trial experience, the duty to “manage” a case, and a bias toward industry. Daubert gives judges with incentives to dismiss a powerful tool.

Two of the favorite tools of managerial judges (and in some cases their law clerks) are summary judgment\textsuperscript{88} and Daubert challenges to scientific or technical proof.\textsuperscript{89} If a court is

\textsuperscript{87} JEREMY BENTHAM, FRAGMENT ON GOVERNMENT, Preface (Harrison Wilfred, ed., 1948) at 11.

\textsuperscript{88} Rule 56(c), Fed.R.Civ.P., provides that summary judgment is appropriate “if the pleadings, depositions, answers to interrogatories, and admissions on file, together with the affidavits, if any, show that there is no genuine issue as to any material fact and that the moving party is entitled to a judgment as a matter of law.” An issue is “genuine” only if there is a sufficient evidentiary basis on which a reasonable jury could find for the non-moving party. Anderson v. Liberty Lobby, Inc., 477 U.S. 242, 249 (1986). A factual dispute is “material” only if it might affect the outcome of the suit under governing law” (id. at 248), and all inferences must be drawn, and all doubts resolved, in favor of the non-moving party. United States v. Diebold, Inc., 369 U.S. 654, 655 (1962); Gans v. Mundy, 762 F.2d 338, 341 (3d Cir.), cert. denied, 474 U.S. 1010 (1985).

On a motion for summary judgment, the moving party bears the initial burden of identifying for the Court those portions of the record that it believes demonstrate the absence of dispute as to any material fact. Celotex Corp. v. Catrett, 477 U.S. 317, 319 (1986). To defeat summary judgment, the non-moving party “may not rest upon the mere allegations of denial of [its] pleading, but [its] response, by affidavits or as otherwise provided in this rule, must set forth specific facts showing that there is a genuine issue for trial.” Fed.R.Civ.P. 56(e). The non-moving party must demonstrate the existence of evidence that would support a jury finding in its favor. See Anderson, 477 U.S. at 248-49.

\textsuperscript{89} Additional aspects of this phenomenon include the ever increasing contraction of discovery rights through rulings and court rule amendments. For the past 15 years, the ability of requesting parties to use the broad discovery rights originally envisioned in the Federal Rules of Civil Procedure, and the notice-pleading regime they complement, has been steadily curtailed:

- the right to obtain information through lawyer-managed discovery, not through mandatory, limited disclosure requirements
- the right to determine how many interrogatories and depositions are necessary to develop adequate proof
- the right to depose a witness for as long as it takes to get answers to relevant questions
- the right to get all relevant information, not merely what the opposing party decides is supportive of claims and defenses
- the right to complete discovery without repeated hearings before judges or discovery masters, with the attendant cost in time and money.
unwilling or unable to try cases, Daubert can certainly be abused.\textsuperscript{90} The opportunity to dismiss a case which should be heard by a jury is within every judge’s grasp.

**The Incentive to Prevent Jury Trials**

Judges today are faced with more and more incentives to prevent cases from going to trial. Budget cuts have led to increasing caseloads which have made “docket cleaning” the obsession of many judges. Furthermore, more judges are coming to the bench with less trial experience – and thus attempt to steer parties away from trial. The concept of the “managerial judge” is gaining acceptance in jurisprudence circles (wherein the judge takes active steps to steer parties away from trial as part of his or her position). And finally, some judges hold pro-business biases (or, more tactfully, they believe juries hold anti-business biases).

All of these pressures need to be understood in order to appreciate how they combine to produce bad law, including the misapplication of Daubert. For example, an aversion to jury trials has led to improperly expansive interpretations of the Federal Arbitration Act.\textsuperscript{91} Again, an aversion to class action trials has contributed to the approval of bad class settlements.\textsuperscript{92}

1. **Increasing Caseloads**

Federal judges in many districts are burdened with an impossible caseload, especially because of their criminal dockets.\textsuperscript{93} This situation continues to worsen. Congress routinely

\textsuperscript{90} Eleanor Swift, *One Hundred Years of Evidence Law Reform - Thayer’s Triumph*, 88 CAL.L.REV. 2437 (2000).


\textsuperscript{93} However, the notion of a national crisis resulting from a litigation explosion is not well grounded in empirical science. E.g., WILLIAM HALTON & MICHAEL MCCANN, *DISTORTING THE LAW* (2004) (thesis is that the perception of the United States as overwhelmed by litigation and desperate need of tort reform is empirically false yet still constitutes popular knowledge of law).
increases this workload by adding new federal claims. The Class Action Fairness Act, for example, will increase the federal judiciary workload. At the same time, Congress refuses to budget adequate monies for federal courts and their attendant bureaucracies, which is leading to crisis situations in many Circuits.

The pressure on judges to “clear their dockets” has never been greater. This is probably more likely due to budget cuts than any actual litigation explosion. Also, the arrival of some high profile mass-tort cases had some judges fearing the worst. As one commentator notes:

The asbestos, Agent Orange, Dalkon Shield, and breast implant litigations were all national events, covered by the media, watched by other judges concerned about their own dockets...

2. Inexperienced Trial Judges

“The judge should not be young; he should have learned to know evil. Not from his own soul, but from late and long observance of the nature of evil in others: knowledge should be his guide, not personal experience”

Plato, THE REPUBLIC.

Some district judges are appointed without sufficient consideration given to the adequacy of their civil trial experience. Without a minimum of trial experience, many judges seek to

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94 For example, between 1970 and 1998 the number of federal criminal statutes nearly doubled to 3,000, according to a 1998 American Bar Association study.
95 The Federal Judicial Conference led by Chief Justice Rehnquist opposes the “Class Action Fairness Act” because “of concerns that the provisions would add substantially to the work load of the federal courts and are inconsistent with principles of federalism.” Judicial Conference, 26 March 2003 letter to Senate Judiciary Committee Chairman Orrin Hatch, R-UT.
96 James Morgan, ABA Urges Congress to Fund Federal Judiciary, LITIGATION NEWS (January 2005), Vol. 30, No. 2, p. 5 (Budget crisis threatens access to justice); E.g., Federal Courts Avert Budget Disaster, LEGAL TIMES (Nov. 29, 2004), p. 3. There are non-monetary fixes that could lessen some of these budgetary demands, especially in the area of GSA charges.
97 Leadership Conference on Civil Rights, 20 March 2003 letter to the Senate, states that “S. 247 is an unnecessary attempt to impose federal judicial regulation on matters of law clearly committed to the states . . .the imposition of such substantial new responsibilities on the federal courts will further impair the ability of those courts to carry out essential functions they are intended to serve under the Constitution.”
98 For an in-depth discussion of this matter, see John C. Coffee, Jr., Class Wars: The Dilemma of the Mass Tort Class Action, 95 COLUM. L. REV. 1343 (1995).
avoid trials. In addition, they risk developing biases in the handling of cases that play to their strengths and avoid their weaknesses. Generally, this means resolution (forced mediation, for example) without trial.

Generally, members of Congress recommend potential nominees as district court judges. The President then nominates the judge. After confirmation hearings by the Senate Judiciary Committee, and absent a filibuster, a simple Senate majority approves the nominees.

Advising the President during this nomination process is the American Bar Association Standing Committee on Federal Judiciary. The group was created because there are no statutory or constitutional qualifications for any federal judge – they need not even have a law degree. The group does not consider a nominee’s philosophy or ideology, only his or her professional qualifications: integrity, professional competence, and judicial temperament. The Standing Committee explains these in more detail:

Integrity is self-defining. The nominee’s character and general reputation in the legal community are investigated, as are his or her industry and diligence.

Professional competence encompasses such qualities as intellectual capacity, judgment, writing and analytical ability, knowledge of the law and breadth of professional experience.

In investigating judicial temperament, the Committee considers the nominee’s compassion, decisiveness, open-mindedness, courtesy, patience, freedom from bias and commitment to equal justice under the law.

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102 Id.


Apparently, the current emphasis by the legislative and executive branch on the ideology of judges has diminished the importance of a judicial nominee’s professional qualifications. Since 1952, the Standing Committee was consulted by every President, Republican and Democrat, prior to their nomination to the bench.\textsuperscript{105} This half-century bi-partisan emphasis on experience was abruptly ended by the Bush Administration, who announced in 2001 that it would no longer notify the Standing Committee of the identity of its nominees prior to their nomination.\textsuperscript{106} This effectively means that the Bush Administration does not seek the impartial opinion of the American Bar Association before nominating a person as a federal judge.

This change in stance has led to a less qualified judiciary. While the Standing Committee found only four candidates to be non-qualified in the twelve years preceding the Bush Administration, already six candidates have been determined to be non-qualified since 2001.\textsuperscript{107} A fewer percentage of candidates are receiving well-qualified marks as well. Clearly this trend represents an weakening of the notion that a judge ought to possess greater qualifications than a certain ideological bent.

For example, one of the nominees receiving a qualified to not-qualified rating by the ABA in 2005 was William Myers, a nominee for the Ninth Circuit Court of Appeals. Myers has never been a judge at any level, has never been a law professor, and has never participated in a jury trial.\textsuperscript{108} Clearly, judges without no academic or trial experience are going to avoid jury trials at all costs (and defer to the trial court’s Daubert’s assessment at the appeals level), so as not to reveal their weakness.

\textsuperscript{105} Id.
\textsuperscript{106} Id.
\textsuperscript{107} See Ratings for Judicial Nominees, ABA STANDING COMMITTEE ON FED. JUD., at http://www.abanet.org/scfedjud/ratings.html.
\textsuperscript{108} A Hostile Judge, THE BOSTON GLOBE (March 22, 2004).
3. **The Judge as Manager**

Also, the culture of federal judging has undeniably moved towards the ideal of the managerial judge and away from the more neutral, judicial umpire and trial model.\(^{109}\) Under this approach, judges attempt to expedite the process or bring about closure rather than provide an impartial forum for the parties to settle a dispute.\(^{110}\) This is a significant trend.\(^{111}\)


\(^{110}\) The Federal Judicial Center, basing itself on comments received from many judges, lawyers and academics, has described effective management as generally having the following characteristics:

- **It is active:** the judge attempts to anticipate problems before they arise rather than waiting passively for matters to be presented by counsel. Because the attorneys may become immersed in the details of the case, innovation and creativity in formulating any litigation plan may frequently depend on the court.

- **It is substantive:** the judge’s involvement is not limited to procedural matters. Rather, the judge becomes familiar at an early stage with the substantive issues in order to make informed rulings on issue definition and narrowing, and on related matters such as scheduling, bifurcation and consolidation, and discovery control.

- **It is continuing:** the judge periodically monitors the progress of the litigation to see that schedules are being followed and to consider necessary modifications on the litigation plan. The judge may call for interim reports between scheduled conferences.

- **It is firm but fair:** time limits and other controls and requirements are not imposed arbitrarily or without considering the views of counsel, and are subject to revision when warranted by the circumstances. Once having established a programme, however, the judge expects schedules to be met and when necessary imposes appropriate sanctions for derelictions and dilatory tactics.

**MANUAL FOR COMPLEX LITIGATION (3rd)** 1994, Federal Judicial Center, Washington, D.C.

\(^{111}\) Active case management is a process which is being applied in many jurisdictions, even outside the States. A recent official Ontario report described it in these terms:

Case management is a comprehensive system of management of the time and events in a lawsuit as it proceeds through the justice system, from initiation to resolution. The two essential components of case management systems are the setting of a timetable for predetermined events and the supervision of the progress of the lawsuit through its timetable. **Case Management.** An Assessment of the Ontario pilot projects in the Ontario Court of Justice, Ministry of the Attorney General, Ontario 1993, p. 4. Likewise, Professor Sallmann of the Australian Institute of Judicial Administration has summarized the “quiet but enormously significant revolution” that has already occurred in the Higher Courts of Australia in this way: “The revolution has involved a dramatic shift from a laissez faire approach in conducting court business to an acceptance by courts of the philosophical principle that it is their responsibility to take an interest in cases from a much earlier stage in the process and to manage them through a series of milestones to check points. Most courts have now acted upon this philosophy and introduced a variety of schemes, the most common denominator of which is substantially increased court supervision and, in some instances, control. Broadly speaking activity has occurred under the banner of ‘case flow management.’ The concept means different things to different people. The essence of it is the adoption by courts of a systematic, managerial approach to dealing with case loads. Cited in **Access to Justice-An Action Plan** (1994), the report of the Access to Justice Advisory Committee of the Commonwealth of Australia.
Professor McGovern explains this shift:

What’s happening on the judicial side? When most of us went to law school, the judge was viewed as an umpire, calling the balls and strikes. As far as the lawyers, the adversarial system—it wasn’t very inquisitorial.

Then with the judicial management school, the Federal Judicial Center, and its baby judges’ conferences, we saw the role of the judge shift from umpire to manager. The job of the judge is to manage litigation. Some of us have made the argument that it’s morphed even further, into the judge as player. When a judge aggregates huge numbers of cases in one particular forum to leverage a settlement, he is just as much a player as the attorneys.

In Multi-District Litigation, or MDL, judges originally were umpires. Their job was just to decide the pretrial discovery and to send the cases back for trial. In the Dalkon Shield case, that’s what happened.

When Jack Weinstein resolved Agent Orange, and as the managerial judging movement progressed, what we saw was a different model in the eyes of the federal MDL judges. Their role was to resolve the entire litigation without having to send it back. So we saw Judge Bechtel resolving any number of cases, most recently Fen-Phen, for example; that was the role of the federal judge. 112

While a managerial approach makes sense in some circumstances, it is neither sensible nor appropriate in all cases. 113 Indeed, it has reached the point where many federal judges view a trial as some sort of failing on their part. For attorneys representing harmed clients, this attitude should be a matter of great concern. 114 More troubling, what some judges mean by

114 As a possible fourth factor, the managerial judge is also too much of an administrator. The most important metrics for a district judge are how long motions sit. Given their fixed salary a judge does not earn any more money from trying cases. Like an assembly line worker on a fixed salary, where is the incentive to produce more?
“management” is simply wearing the parties down until they settle. This strategy does little to advance the goals of fairness or efficiency in resolving the underlying dispute.

4. The Pro-Business Judge

It is unrealistic to claim that no judges hold a pro-industry bias. The bitter legislative fights over federal judge appointments demonstrate the rift in the judiciary. Such judges understand that jury trials present great risks to corporate defendants, and they may not trust juries to judge the defendant fairly. The refusal of the Bush Administration to subject their potential nominees to ABA screening has only enflamed the problem of biased judges.

Consider again the example of the unqualified William Myers. One of the reasons Myers received such a low ABA rating was that he has essentially been a corporate lobbyist for mining and cattle industries for most of his career, and his legal reasoning ability is seriously in doubt. Myers’ industry bias (which flaunts Supreme Court precedent) is easy to ascertain:

He has compared federal management of public lands to “the tyrannical actions of King George in levying taxes” on the Colonies without their representation. He considers both the Endangered Species Act and the Clean Water Act’s wetlands protections to be examples of “regulatory excesses” and has argued that private property rights are as fundamental as free speech rights. This is a view, repeatedly rejected by the US Supreme Court, that would undercut a wide spectrum of zoning and environmental laws.

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117 Id.
The pro-industry Chamber of Commerce has recognized the importance of stacking the judiciary with biased judges, and has been more involved than ever in the election of state judges. The Chamber has also been more active regarding the selection of federal judges.

5. Loss of Focus

U.S. District Court Judge William Young argues that the reason the jury trial is dying in federal courts is that “we [district court judges] have lost focus on our prime mission; our status as the grassroots guardians of constitutional values is threatened as never before.” Judge Young notes the twenty-six percent decline of civil jury trials, and contends an unfocused federal judiciary “has been willing 'to accept a diminished, less representative, and thus sharply less effective civil jury.’” According to Young,

Ours is a dual mission. First, we preside over the largest, most daring, and most successful experiment in direct democracy ever attempted in the history of the world -- the American jury system. The continued vitality of that system depends, in no small measure, on the skillful management and warm inspirational support of U.S. District Court judges.

Second, alone among the democracies of the world, we commit first-instance constitutional interpretation to U.S. district judges. In contrast, most countries reserve constitutional adjudication for a special appellate court. The result is plain -- the U.S. Constitution is the most vibrantly living written governmental framework and guarantee of individual liberties ever seen -- precisely because reasoned, case specific, written interpretation of the fundamental law is as close as the nearest federal district court.

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118 See, e.g., Supreme Court Won’t Weigh in on Chamber of Commerce Election Ads, THE ASSOCIATED PRESS (May 29, 2001) (the Chamber, restricted in its donating to judicial candidates, nonetheless ran ‘issue ads’ supportive of candidates considered pro-business).
119 See, e.g., Chamber’s Institute for Legal Reform. www.instituteforlegalreform.org.
121 Id. at 31 (quoting Ciulla v. Rigny, 89 F. Supp. 2d 97, 102 n. 6 (D. Mass. 2000)).
Federal judges, even those unbiased against litigation, are losing focus of their mission to encourage and support the jury system.

**Daubert: The Opportunity to Prevent Jury Trials**

Judges, having many incentives to prevent a case from going to trial, also possess the opportunity to do so. *Daubert*, with its many criteria, can allow a judge to focus on just one criteria, to weigh it unevenly, and use it to prevent expert testimony (in many cases central to a plaintiff’s entire case) from reaching the courtroom. And *General Electric Company v. Joinder* gives the judge peace of mind that his ruling, however unreasonable, will probably not be overturned on appeal.

*Daubert* motions present a tempting opportunity for judges to dispose of cases without risk of appellate review. As Professor McGarity states

> After more than a decade of experience with *Daubert*, it is now clear that the lower courts have applied it vigorously to exclude expert testimony. Since the plaintiff ordinarily has the burden of proof in tort litigation, this aggressive invocation of the judge’s new role as guardian of the purity of scientific evidence has had a disproportionate impact on plaintiffs. With remarkable speed, judges have gone far beyond throwing the clinical ecologists out of the courtroom. Impressed by artful defense counsels’ smoke

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124 Jeffry D. Cutler, Implications of Strict Scrutiny of Scientific Evidence: Does Daubert Deal a Death Blow To Toxic Tort Plaintiffs? 10 J. ENVTL. & LITIG. 189, 214 (1995) (“It doesn’t take a rocket scientist to figure out that a four or five part test including ‘general acceptance’ as one factor will be more difficult to meet than a test based on ‘general acceptance’ alone”).

125 In the mid-1980s, the science of clinical ecology appeared to be the answer to the causation conundrum for plaintiffs’ attorneys. Professor Elliott described the phenomenon as follows:

> For a price, some clinical ecologists will testify that exposure to even very small amounts of a wide range of chemicals suppresses the immune system, thereby weakening the body’s ability to ward off disease. This weakening, in turn, allegedly makes the plaintiff vulnerable to virtually all diseases known to humankind, including “nervousness,”“malaise,” and other conditions that present only subjective symptoms.

E. Donald Elliott, Toward Incentive-Based Procedure: Three Approaches for Regulating Scientific Evidence, 69 B.U.L.REV. 487, 490 (1989); see, also, Peter Huber, A Comment on Toward Incentive-Based Procedure: Three Approaches for Regulating Scientific Evidence by E. Donald Elliott, 69 B.U.L.REV. 513, 515 (1989). Even before *Daubert* refined their screening function, the courts never seriously entertained claims based heavily upon the testimony of clinical ecologists . . .
screens, they are now excluding testimony of well-regarded experts. 126 A plaintiffs attorney must prepare not only to establish an expert’s qualifications, but also to convince a skeptical trial judge that the testimony supports a scientifically reliable conclusion based upon scientifically reliable data and that the conclusion fits the legal requirements for establishing cause-in-fact. 127 If the plaintiffs attorney fails, everyone goes home, and no one knows whether the plaintiff was a victim of cruel fate or of the defendant’s possibly unconscionable conduct. If the attorney succeeds, the judge and jury must sit through days of confusing and conflicting expert testimony, at the end of which the jury may still decide that the plaintiff did not carry the burden of proof.

Giving judges the opportunity to easily replace a reading of the law with their personal preference undermines the entire American judicial system. This is very dangerous, as Hamilton noted in THE FEDERALIST NO. 78: “The courts must declare the sense of the law; and if they should be disposed to exercise WILL instead of JUDGMENT, the consequence would equally be the substitution of their pleasure to that of the legislative body.”128 The role of the judge was supposed to be that of a rule-enforcer. The rules were to be clear-cut in such a way that bias would have little opportunity to rear its ugly head. But Daubert has provided just that opportunity.

Some judges have recognized this, and refused to engage in the amateur science that Daubert allows. An Arizona Supreme Court Justice, Stanley Friedman, in a case where evidence had been excluded in a lower court’s Daubert hearing, wrote, “[m]ulti-factored, ‘flexible’ tests of

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127 See Harvey Brown, Eight Gates For Expert Witnesses, 36 HOUS.L.REV. 743 (1999) (detailing eight “gates” through which a proponent of expert testimony must navigate in order to demonstrate that the testimony is admissible); see, also, Beecher-Monas, supra.
128 ALEXANDER HAMILTON, THE FEDERALIST PAPERS, No. 78 The Judiciary.
the sort announced in Daubert are more likely to produce arbitrary results than they are to produce nuanced treatment of complex questions of admissibility.\textsuperscript{129}

However, it is not the case that Daubert judges are a malicious lot (although some are), seeking to protect the interests of industry at the expense of the common man. The problem with Daubert is that it allows one’s subconscious biases and preconceptions to shape their decision-making in a dramatic way. To the extent that the court has a bias or preconception one way or another in a civil dispute, it would not be surprising to see that bias play itself out in a negative evaluation of the proof offered by one side.\textsuperscript{130} It is human nature to look favorably at data that reinforces one’s preexisting worldview. It is harder to evaluate facts objectively.\textsuperscript{131} What is unfortunate is that different fact finders can draw different inferences about what is important, and the current jurisprudence seems to signal the death of inferential proof\textsuperscript{132} and next a lawyer’s ability to define his own case.\textsuperscript{133}

\textsuperscript{129} Legerquist v. McVey, 196 Ariz. 470, 1 P.3d 113 (Ariz. 2000).

\textsuperscript{130} The problem of disobedient federal judges has emerged in numerous contexts. \textit{E.g.}, Adam Liptak and Ralph Blumenthal, Rulings In Texas Capital Cases Try Supreme Court’s Patience, NEW YORK TIMES, p. A-1 (December 5, 2004) (quoting former chief judge John Gibbons., “[t]he Fifth Circuit went out of its way to defy the Supreme Court on this [death penalty related issue]. The idea that the system can tolerate open defiance by an inferior court just cannot stand.”); Environmental Law Institute, Judging NEPA: A “Hard Look” at Judicial Decision Making Under the National Environmental Policy Act (2004) (revealing a wide division between Republican and Democratic appointees in rulings in NEPA cases).

\textsuperscript{131} It is also hard to reconcile the unlimited trust placed in trial court on Daubert matters with the micro-managing of judges that it is now the vogue. In areas like sentencing and even the supervision of class actions, the trend is in the opposite direction.

\textsuperscript{132} \textit{E.g.}, Factor VIII or IX Concentrate Blood Products Litigation vs. Allpha Therapeutic Corp., 2000 Westlaw 282787 (E.D.La. 2000) is a very complex class action case involving alleged reinfection of an HIV positive person through the medium of defendant’s intravenous solutions. The case is significant because it involves a “new theory” expert testimony case under Daubert. The District Court denied a defendant’s motion for a summary judgment based on its expert testimony that there was no evidence that reinfection of HIV occurred in humans. Literally in the motion papers, the plaintiffs presented a report which documented the first case of an HIV positive patient to actually be reinfected with a second strain of HIV. At the time of a hearing the potential rate of error was unknown, the actual test performed had not been subjected to peer review and there was no evidence that it was generally accepted in the scientific community. However, the plaintiff presented other evidence in the form of papers by their own expert witness and others that seemed to illustrate the existence of the reinfection theory. The Court assumed, for the purposes of the summary judgment motion, that the reinfection theory would survive a Daubert challenge as to reliability. However, the Court held that the proffered expert evidence did not survive the Daubert relevancy test because the plaintiffs could not present evidence that the plaintiff had actually been reinfected or that his illness would have proceeded differently from the singly infected individual because of
Even Peer Reviewed Evidence is Excluded under Daubert

Recall that the original reasoning by the Supreme Court in Daubert was that the Frye peer-review standard was too stringent and prevented novel theories from being offered. Thus, the point of the case was to expand the amount of allowable evidence, beyond mere peer-reviewed evidence. Thus, the fact that peer-reviewed evidence that passes the Frye standard is now being excluded in Daubert hearings shows the gross perversion by which Daubert had been interpreted and applied by the federal judiciary.

For example, in Castellow v. Chevron USA, the daughter of a deceased gas station attendant brought suit alleging exposure to benzene caused her father’s cancer. The court rejected the plaintiffs’ experts’ testimony of the link between benzene and acute myelogenous leukemia (AML) simply because the expert used an exposure model to determine the plaintiff’s exposure to the chemical. The court agreed with the defendant’s contention that “Dr. Rose’s reliance on “modeling” to calculate Kenneth Castellow’s lifetime benzene exposure is an inappropriate methodology.” According to the court:

Although Plaintiffs insist that the modeling technique is an acceptable scientific methodology and well suited to cases like this one, the court is not persuaded that the record supports that assertion when modeling is used to justify causation opinions in a tort claim.

133 In products liability case involving whether a ladder was unreasonably dangerous in design, the District Court in Clark v. R.D. Werner Co., 2000 Westlaw 666380 (E.D.La. May 18, 2000), rejected the testimony of plaintiff’s metallurgical expert. The Court concluded that the issue in the case was bad design, not metal failure. The metallurgist’s specialty was in bicycle failure. The trial court rejected the metallurgist’s testimony because he was not a mechanical engineer, had never designed or overseen the assembly the stepladder, had never subjected any ladder much less the ladder in question to a full protocol of tests required by industry standards, had not served on any committees creating the standards, had not studied in the field of accident reconstruction, and had never done even metallurgical testing on any ladder including the ladder in question.


135 Id. at 786.

136 Id. at 789.
The judge in the case rejected modeling as an acceptable scientific methodology even though it is widely accepted in the field. Plaintiffs even produced a “publication by the American Industrial Hygiene Association (“AIHA”) in which modeling is described and advocated: “Modeling Inhalation Exposure” written by Michael A. Jayjock, Ph.D.”137

Indeed, some judges use Daubert to exclude even evidence that is accepted in the scientific community. This is clearly contrary to the Supreme Court’s holding.

**Examples**

Judge John Parker’s exclusion of expert testimony (and subsequent granting of summary judgment) in Chambers v. Exxon Corporation138 is a glowing example of Daubert’s abuse. In that case, a worker at an oil refinery who was exposed to benzene over a five-year period contracted an extremely rare form of cancer: chronic myelogenous leukemia (CML).139 Plaintiffs produced Dr. Peter Infante, the former Director of the Office of Standards Review at OSHA as well as a Professor in Environmental and Occupational Health, who had authored a 1977 study concluding that benzene caused CML. The basis of Judge Parker’s exclusion of this expert testimony is remarkable:

The disease from which Mr. Chambers suffers, chronic myelogenous leukemia, develops in the general population. It develops in those that have been exposed to benzene and those that have not. Without a controlled study, there is no way to determine if CML is more common in people who are exposed to benzene than those who are not. Therefore, in a case such as this, the most conclusive type of evidence of causation is epidemiological evidence . . . Epidemiological studies are necessary to determine the cause and effect relationship between an agent, in this case exposure to benzene, and a disease, CML. Epidemiological studies can be defined as the branch of medicine that deals with the causes, distribution, and control of disease in humans.140

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137 Id.
139 Id. at 663.
140 Id. at 663-64.
In dismissing the case, Parker cites "plaintiffs' experts have not offered an epidemiological study that conclusively establishes a statistically significant risk of contracting CML from exposure to benzene."\textsuperscript{141} But, because CML is so rare, there are not enough sufferers of the disease to do a blue-collar study of all workers in the field.

So, what Judge Parker wanted is a "controlled study" where plaintiffs’ experts take 100 healthy people, put 50 in each room, and spray 50 of them with benzene (presumably without telling them to keep the experiment truly controlled). Then, the scientists can see which group contracts CML and suffer a horrible death so that this evidence can be presented in court. And only this study will satisfy Judge Parker’s desire for "good science."

What Judge Parker fails to realize is that such epidemiological studies are not only illegal but are considered the height of unethical behavior in the science community. But then again, as an armchair scientist, how is he to know the basics of scientific ethics? Unfortunately, \textit{Daubert} provides the opportunity for just this sort of ridiculous reasoning to take place.\textsuperscript{142}

Also consider \textit{Newman v. Motorola},\textsuperscript{143} a cell phone cancer case. There, the judge blocked plaintiff’s from presenting their expert testimony to the jury. As two scholars note\textsuperscript{144}:

> While limits to peer review have been widely acknowledged, [Judge] Blake’s skepticism and forensic investigation of the correspondence between Hardell and various journal editors places her judgment on what might appear to be a scientifically unaccountable basis. In a discussion of problems with the “use and

\textsuperscript{141} Id. at 664.

\textsuperscript{142} This reasoning did not stop with the district court. The Fifth Circuit affirmed the exclusion, agreeing that the lack of epidemiological studies made the evidence unreliable. According to the Fifth Circuit, “[a]ccordingly, because Chambers failed to demonstrate that his experts would present reliable data that benzene caused his CML, the district court acted within its discretion when it excluded the testimony of Chambers' causation experts.” Chambers v. Exxon Corp., 247 F.3d 240 (5th Cir. 2001). This shows how a lack of any meaningful appellate review only crystallizes and promotes Daubert abuse.

\textsuperscript{143} 218 F.Supp.2d 769 (D. Md. 2002).

abuse” of research subpoenas and judicial misconceptions of the role of scientific peer review Sheila Jasanoff explained that:

[s]cientific peer review is likely to differ markedly in its objectives and impact from review carried out by an expert in a litigation context. In legal review, the goal is neither to make good work better nor to retrieve what might be of value from work of lesser significance. It is instead, to seek to aggressively as possible discredit the proffered evidence and to deploy in the process all the skeptical resources that experts specifically engage for this purpose can muster (Jasanoff 1996: 113-14).

Having challenged the circumstances surrounding the publication of Hardell’s work, Blake continued the critical assessment of Hardell’s claims: “The fact of publication, of course, does not eliminate the need to examine the results and methodology of the study, keeping the inquiry focused on relevance and validity as it relates to the causation opinions offered in this case” (Newman 2002 at 12). Blake criticized Hardell’s “methodology”, highlighting: problems of recall bias, lack of a demonstrated dose-response relationship, the relationship of ipsilateral causation to general causation; problems with sub-group comparisons; and lastly, the reliance of a methodology for testing laterality, that “has not been used by any other scientist proffered to the court . . . nor . . . been replicated” (ibid. at 14).

Furthermore, Blake’s references to testing and replication provide a good example of the flexible ways ideal images of the scientific method can be used in legal settings to help deconstruct or marginalize particular forms of expertise. For example, Blake suggested that Hardell’s work had not been replicated because “[t]he Inskip and Muscat studies [two alternative epidemiological studies] which tested laterality by other means and admittedly with a smaller number of people do not show increased risk” (ibid. at 14).

Sociologists of science, most notably Harry Collins, have provided detailed accounts of how the meaning and interpretation of an experimental replication are highly negotiable and often controversial (Collins 1985). Blake engages in precisely this kind of interpretive exercise when she accords a sufficient degree of similarity to all of the epidemiological studies in question which allows them to be characterized as a failure to replicate Hardell’s findings. Notwithstanding this view, it would have been open to Blake to dismiss Hardell’s work even if the Inskip and Muscat
studies had supported his findings. The studies could have been distinguished, drawing upon Blake’s categories, on the grounds that they tested laterality “by other means” and with a “smaller number of people.”

Blake’s critiques of the testing and replication also demonstrate the way post-Daubert visions of science, coupled with a tough gatekeeping ethos, can be used to restrict the entry of (novel) scientific claims. One of the general features of the mobile-telephone health debate (and no doubt many other controversies around certain risks to health) has been the difficulty in achieving standardization of study methodologies and establishing what types of scientific studies should be accorded weight in ascertaining causation (Berger, 1997); (Edmond & Mercer 2000); (Mercer 2002; Miller 2003). While simplistic images of the sciences are de rigueur in legal formulations and contexts (exemplified in Daubert), the “real world” science is considerably more complex. Current research into the health effects of mobile telephones exemplifies this complexity in a manner that might inform our understanding of Blake’s Newman decision.

The World Health Organization (WHO) is currently running an international epidemiological study examining the medical records of cancer patients while endeavoring to establish their past mobile-telephone use. Whatever its findings, this study will be vulnerable to future legal/methodological deconstruction by claims that its results embody an unscientific recall bias. The study’s retrospective approach has already encountered criticism from epidemiologists who favor prospective methods. Prospective methods tend to start by monitoring phone use and then track future health outcomes. Prospective studies, interestingly, have limited relevance to current mobile-phone tort litigation (or regulation) as they often take decades to complete. Furthermore, even if prospective studies did indicate a positive correlation between adverse health effects and mobile phone use they may be vulnerable to challenge unless (future) plaintiffs can identify physical causal mechanisms that explain why mobile phones appear to be harmful. The debate over possible causal mechanisms for mobile telephone health problems also suffers from entrenched theoretical disagreements, and a lack of acceptance around protocols for experimental work (Stewart 2000; Swicord 2003). Somewhat ironically, these entrenched theoretical disagreements are some of the factors originally motivating policymakers, such as the WHO, to oversee the retrospective epidemiological studies (Graham-Rowe 2003).
The extended gatekeeping undertaken by Blake in *Newman* illustrates how *Daubert*-inspired quests to establish scientific truth at the pre-trial stage of litigation may assist in discouraging ongoing legal scrutiny of intransigent scientific controversies involving uncertain risks.

Judge Blake, in this case, was engaging in just the sort of amateur scientist shenanigans that Rehnquist warned of in his *Daubert* dissent. \(^{145}\) *Daubert* has enabled judges to don lab coats for a day and dismiss years of careful research by real scientists. This is clearly unacceptable. Another example is Erica Beecher-Monas’ critique \(^{146}\) of the Eight Circuit’s handling of science issues in Wright Willamette Industries, Inc.: \(^{147}\)

In this toxic tort case, the plaintiffs were a family who lived a short distance from a fiberboard manufacturing plant, and suffered from headaches, sore throats, respiratory ailments, and dizziness, which they claimed were caused by emissions from the plant. It was undisputed that the plant emitted particles laced with formaldehyde, that the polluting emissions exceeded state maximum levels, and that the plaintiffs were exposed to these particles.

After a jury trial at which the plaintiffs prevailed, they were awarded $226,250 in compensatory damages. On appeal, the Eighth Circuit overturned the jury verdict, ruling that the plaintiffs were unable to meet their burden of proving proximate cause because their expert testimony should have been excluded as “speculation.” As far as the Eighth Circuit was concerned, although the plaintiffs demonstrated exposure to fiberboard particles produced by the defendant manufacturer, and that these particles were found “in their house, their sputum, and their urine, they failed to produce evidence that they were exposed to a hazardous level of formaldehyde from the fibers emanating from Willamette’s plant.” As support, the court cited the Federal Judicial Center’s Reference Manual on “fit,” apparently for the notion that plaintiffs need to “prove adequate exposure to a toxic substance that was somehow connected to the defendant.” The Eighth Circuit’s ruling stemmed from a fundamental misunderstanding of


\(^{147}\) Wright v. Willamette Indus., Inc., 91 F.3d 1105 (8th Cir. 1996).
basic scientific theory, namely elementary principles of metabolism and threshold response.

These cases show how members of the judiciary can and do abuse Daubert.

There are many reasons why the judiciary might want to prevent cases from going to trial. A bias toward industry, a starved budget and subsequent need to clear dockets, inexperienced trial judges, and the rise of the managerial judge also provide an incentive to prevent a person’s right from having their claim heard by a jury. And Daubert provides the tool.

**Doctored Daubert: The Effects on the Legal System and Society**

It has been established that the combination of motive and opportunity has indeed led to Daubert’s abuse. The effect of this abuse has had a tremendous impact upon the judicial system, far beyond what anyone could have imagined the Supreme Court’s decision would have. For one, evidence exclusion has led to more summary judgments for defendants, which has had a chilling effect upon plaintiffs bringing otherwise good suits. This chilling effect has extended into the realm of science as well, whereas scientists are refusing to testify as to their findings, so as not to be “discredited” in an American court of law. Daubert has undermined the U.S. courtroom as a mechanism for public hearing and exposing industry practices and dangerous products. Perhaps its most ironic effect is that, whereas judges who abuse Daubert think they are clearing their dockets, Daubert has led to such forum fighting between plaintiffs and defendants that more judicial resources are wasted, not conserved. The effects of Daubert abuse upon collateral estoppel are also troubling, as is its politicization of the judiciary and impending creep into regulatory agency thinking. All of these are examined more closely below.

**Evidence Exclusion and the Chilling Effect on Plaintiffs**

Despite the Supreme Court’s reasoning in Daubert to liberalize the standards for admitting evidence to conform with the Federal Rules, the exact opposite has happened. In 2002,
The RAND Institute for Civil Justice released a study of 400 federal judicial decisions spanning a twenty year period to determine the impact of Daubert.\textsuperscript{148} The outcome of that study showed three results: that more evidence was being challenged, that more was being excluded, and the frequency of summary judgment being granted against plaintiffs had increased.\textsuperscript{149}

Regarding the amount of testimony being excluded, one researcher found:

A substantial sample of such cases at the district court level shows, once again, nearly two-thirds of challenged plaintiff expertise being rejected, whereas in the small number of cases where plaintiffs have challenged defense-proffered expertise, less than half the defense proffers have been rejected\textsuperscript{150}…

…[And] in state civil cases, 82\% of the cases involved defendants challenging plaintiff expert proffers, and 40\% of these were successful. While this rate is lower than the two-thirds victory rate for defendants in federal court, it represents a not-insignificant percentage of rejection of proffered civil plaintiff expertise on reliability grounds. This rate is almost certainly higher than the pre-Daubert rate, even though the case was not directly binding in any state court.\textsuperscript{151}

The study conclusively tied these results to Daubert itself. According to the two researchers, “the rise in the proportion of challenged evidence excluded after Daubert provides further evidence that post-Daubert changes in standards for admitting expert evidence where more than just shifts in terminology.”\textsuperscript{152}

The result, of course, of more evidence being excluded, was a spike in the percentage of summary judgment motions that defendants won. With many novel claims being based on recent advances in science, it is no wonder that many plaintiffs’ cases rely so heavily on expert


\textsuperscript{149} Id. See, also, M. Berger, What has a decade of Daubert wrought?, The Coronado Conference on Scientific Evidence and Public Policy, San Diego, March 2003.


\textsuperscript{151} Id. at 111.

\textsuperscript{152} RAND Study at 54.
testimony. The statistics speak for themselves, with findings that “[t]he percentage of summary judgment motions granted post-Daubert more than doubled. Over 90 percent of the judgments came down against plaintiffs.”

So Daubert, a decision which was to make novel claims easier, has more than doubled the amount of doors slammed to plaintiffs seeking compensation for their clients. Daubert has severely crippled a plaintiff’s right to a jury trial, and has had the opposite effect than what the Supreme Court intended.

The ABA Section of Litigation underscored this problem in 2002 with a symposium entitled “The Vanishing Jury Trial.” ABA research shows that the percentage of federal civil cases going to trial has dropped from 11.8% in 1962 to 1.8% in 2002. The conclusion: despite the alleged litigation explosion in recent decades, the actual number of civil jury trials in federal court has steadily decreased in both percentage and actual number. In the Fifth Circuit, Judge Higginbotham found that the average judge presides over fourteen trials a year, with the vast majority of them lasting less than three days. Civil trials especially are on the decline. There has been a 79% decline in tort trials between 1985 and 2003, from 3600 to 800 nationally.

It should come as no surprise that the expense of defending against Daubert motions has had a “chilling effect” upon plaintiffs. According to the RAND study, the heightened exclusion

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153 Daubert: The Most Influential Supreme Court Ruling You’ve Never Heard Of. The Tellus Institute: A Publication of the Project on Scientific Knowledge and Public Policy, June 2003 (referencing the RAND Study).


155 Although ABA research shows this trend in some state courts at least, some other state courts appear to be different. In New Jersey, 1.9% of all filed cases are resolved by trial. This number has remained constant from 1990 to 2004. Harvey C. Fisher, Trial Rates Down? Not On Your Life, NEW JERSEY LAWYER, Vol. 13, No. 45 (Nov. 8, 2004), p. 1. Interestingly, for litigation explosion theorists, total new filings per year fell to 99,855 in 2004 from 160,465 in 1990. Id.

156 Patrick E. Higginbotham, So Why Do We Call Them Trial Courts?, 55 SMU L.Rev. 1405, 1405-06, (2002); The unfinished part of the story about declining jury trials is how few jury verdicts are allowed to stand post-trial or on appeal. E.g., Joseph T. Hallinan, In Malpractice Trials, Juries Rarely Have the Last Word, WALL ST.J., p. A-1 (Nov. 30, 2004).

of expert testimony resulting from Daubert has “led plaintiffs to narrow [their] case, drop the case altogether, and accept a reduced settlement.”

The socio-economic implications of this deserve mentioning. The reduced threat of a jury trial leads reduces the incentive for companies to reduce reckless behavior. America’s entire civil justice system, which encourages all harmed plaintiffs to bring cases with the contingency-fee arrangement (to provide access to all) and punitive damages (to punish bad behavior), seeks not only to compensate the victim but deter companies from harming in the first place. Clearly, the rise of the Daubert regime is undermining the basic purposes of the American civil justice system.

Chilling Effect on Scientists

The chilling effect extends beyond the realm of the law into the realm of science. This is perhaps one of Daubert’s most unanticipated (and most dangerous) effects. Beyond suffering the personal attacks associated with a Daubert hearing, scientists are beginning to understand that the validity of their life’s work will be upheld or discredited at the whim of a particular judge. This imperils not only a scientist’s professional reputation but possibly even his or her funding.

The Tellus Institute, in their Daubert study of, spoke to experts and scientists who confirm this chilling effect:

David Michaels, a Professor in the Department of Environmental and Occupational Health at the George Washington University School of Public Health and Health Services and former Assistant Secretary of Energy for Environment, Safety and Health at the U.S. Department of Energy said the Daubert process may be keeping well-regarded scientists out of an area where they could be providing a public service. “I’m concerned that scientists are hesitant to testify for fear of being drawn into a lengthy and unpleasant process where they have to defend their good names,” he said.159

158 RAND Study at 55.
159 The Tellus Institute at 13.
Daubert is scaring experts from sharing their expertise with the court. How is this good for either judge, fact-finder, or society at large?

**Daubert Undermines the Courtroom as a Public Hearing Mechanism**

The Newman v. Motorola cell-phone case discussed above underscores a related but distinct public policy point regarding the effects of Daubert’s abuse. Many view the tort system as filling a void left by an increasingly corporate dominated legislative and executive branch:

> We have failed to create adequate public forums, other than tort lawsuits in courtrooms, for citizens to express their outrage at the injurious imposition of unconsented-to risks. Only in the courtroom can citizens officially and publicly call corporations and their officials to answer for their actions, prevent corporate harm-causers from evading public government criticism and lawsuits, expose corporate decisionmaking and publicly reprimand corporations and their decisionmakers for the harms they cause. Only in the courtroom do we acknowledge and reinstate the dignity, respect, and autonomy of the injured victims in a public way. Tort litigation provides a place for victims to tell their stories to the public and make the perpetrators listen. Tort law theoretically empowers injured victims to act, when the government does not protect their health and safety. We should not blame injured victims for utilizing the tort system as this kind of public forum, nor fault the tort system for providing it. We should praise common law tort for its tenacity, particularly in an era of bad press, lax regulatory agencies, and minimal criminal sanctions. The failures here are in the background political and legal systems, not in common law tort or with its victims. ¹⁶⁰

Daubert hearings are clearly hurting the role of the court in this aspect. ¹⁶¹ Many Daubert decisions are unpublished, thus keeping the public uninformed about what is happening. In other words, new theories regarding the dangers of products already on the market are being suppressed.

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¹⁶¹ Whether or not “public forum” is a proper role for a court is a large subject that is not addressed here.
Courtrooms often provide a safety net to catch dangerous products that have slipped through the cracks of the (increasingly industry influenced) regulatory agency. In short, Daubert is preventing scientists from blowing the whistle on products that are harming people.

A Waste of Judicial Resources: The Rise in Forum Fighting

Forum shopping. This is a favorite term of those seeking to take away one’s right to a jury trial. The waste of judicial resources and so-called “litigation explosion” are a result of this. The irony is that Daubert may have done more to do with the forum-fighting phenomenon (whereas parties spent years and countless judicial resources fighting about where a case should be tried) than any other development in American law.

The Frye approach, which uses a general acceptance test, remains important and that Daubert is still the minority view nationally. About 98% of all civil and criminal cases are litigated in state courts. Only 16 states have expressly adopted the Daubert standard, while 19 states still adhere to the Frye standard. Among those 19 states, which encompass 55% of the nation’s population are populated states like California, New York, Florida, Illinois, Pennsylvania, Michigan and New Jersey.

In many cases, the battle between state court and federal court is really a battle between the Frye standard and the Daubert standard.

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162 Frye v. United States, 293 F. 1013 (D.C.Cir. 1923).
So Daubert, with its potential for abuse (i.e., when a judge throws out scientific evidence that is generally accepted in the scientific community), has made the battle between state and federal courts the death-knell battle in many cases involving scientific evidence. This has led to the “forum shopping versus removal” problem that is wasting an incredible amount of judicial resources.

Defendants, rather than preparing a defense and moving forward on a case (which helps clear a judge’s docket), now spend considerable time fighting for removal to federal court. In many cases, they do so for no other reason than to get to a jurisdiction employing Daubert.164 Many judges who think Daubert is a wonderful tool to clear one’s docket might be surprised to know that it is actually making their dockets more congested, not less. Whatever time the judiciary is saving in a Daubert summary judgment, they are probably losing even more overseeing the venue fight which Daubert creates.

Daubert has led to more litigation in other respects as well. Because of Daubert, parties are being dragged into litigation that would otherwise be left out. The fight to keep a case in state court (and away from a Daubert-wielding biased judge) might entice a plaintiff to drag additional defendants into a case in order to defeat a federal court’s diversity jurisdiction. One example would be a plaintiff’s lawyer’s adding the doctor who prescribed the drug to a drug liability case involving an out-of-state corporation.

**Daubert’s Damage to Collateral Estoppel**

The broad discretion given trial judges to interpret science under Daubert “has created the appearance of incoherence, with courts rendering contradictory admissibility rulings despite

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evaluating the same testimony and applying the same factors.” In other words, science accepted in one Daubert hearing might be rejected in a similar hearing in a different court. This hurts collateral estoppel – and results in a waste of judicial resources.

The best known example of Daubert’s ‘schizophrenic science’ effect involves the lawsuits brought against the makers of Parlodel, a lactation suppressant. The Tenth Circuit called the situation “a counter-intuitive effect [of Daubert],” whereby different courts relying on essentially the same science may reach different results.

In the Parlodel cases, plaintiffs asserted that the drug caused them to suffer heart attacks, strokes, and seizures. As proof, they presented “case studies, animal studies, challenge-rechallenge data, toxicology studies and the opinions of medical professionals, including testimony from a member of the FDA’s Fertility and Maternal Health Drugs Advisory Committee who had reviews the safety of Parlodel for the federal government.” Most of the cases had Daubert hearings, and the result was a mess. Different courts, supposedly applying the same criteria, met with drastically different results.

One judge, who refused to exclude the evidence at the Daubert hearing, offered this critique of Daubert’s abuse:

It is not part of the trial judge’s gatekeeping role to determine whether the proffered opinion is scientifically correct or certain in the way one might think of the law of gravity . . . it is the fact-

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166 Hollander v. Sandoz Pharmcs., 289 F.3d 1193, 1206 (10th Cir. 2002).
167 The Tellus Institute at 11.
finder’s role (usually a jury) to determine whether the opinion is correct or worthy of credence. For the trial court to overreach in the gatekeeping function and determine whether the opinion evidence is correct or worthy of credence is to usurp the jury’s right to decide the facts of the case. All the trial judge is asked to decide is whether the proffered evidence is based on “good grounds” tied to the scientific method.169

Clearly, the Supreme Court needs to re-visit this issue in light of the incredible amount of confusion as to what Daubert actually instructs (or empowers) a trial judge to do. Any test that results in wildly different results based on the same facts across the nation does not comport with the notion of collateral estoppel in the justice system.

**Politicizing the Judiciary**

Daubert provides a tool by which biased judges (either pro-plaintiff or pro-defendant) can include one side’s experts while excluding the other. This has given even greater incentive for Congress to pack the federal judiciary with partisan loyalists rather than legal thinkers. Daubert has contributed to the ongoing polarization and politicization of the judiciary.

**Daubert Abuse Creeping into Regulatory Agencies**

Potential Daubert abuse does not only threaten our nation’s courts. Regulatory agencies are starting to adopt Daubert-like standards. This of course allows the political (and possibly industry-biased) appointees at the top of the regulatory agencies to dismiss the findings of agency scientists by hiding behind Daubert. Powerful interests are basically attempting to replace science with bias, to replace policy with politics.

There is evidence that they are succeeding.

In 1999, an industry funded think tank was formed with the goal of urging administrative agencies to apply Daubert standards to the science agencies rely upon to administer our nation’s

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health, safety, and environmental laws.\textsuperscript{170} Congress responded by passing the Data Quality Act in 2000.\textsuperscript{171} The Act directs the Office of Management and Budget to issue government-wide guidelines that “provide policy and procedural guidance to Federal agencies for ensuring and maximizing the quality, objectivity, utility, and integrity of information (including statistical information) disseminated by Federal agencies.”\textsuperscript{172}

The OMB published the final guidelines to implement the Data Quality Act in the Federal Register on September 28, 2001.\textsuperscript{173} These guidelines include “administrative mechanisms allowing affected persons to seek and obtain correction of information maintained and disseminated by the agency that does not comply with the OMB guidelines.”\textsuperscript{174} Speaking about the ‘flexibility’ of the guidelines (sounding like the flexibility of Daubert), the OMB contends, “[t]hrough this flexibility, each agency will be able to incorporate the requirements of these OMB guidelines into the agency’s own information resource management and administrative practices.” The short meaning of this: top agency officials now have more “flexibility” when it comes to disputing their own scientists, and “affected parties” (\textit{i.e.}, industry) can appeal, bringing a Daubertesque challenge to scientific agency conclusions they do not care for.

There is evidence that pressure on government scientists to alter conclusions and reports based on “concerns about validity” from political appointees is growing.\textsuperscript{175} As Daubert extends into the sphere of regulation, the scientific method risks being replaced by politics within the halls of government agencies.

\textsuperscript{171} 44 U.S.C.A. § 3516.
\textsuperscript{172} Id.
\textsuperscript{173} 66 Fed.Reg. 49718.
\textsuperscript{174} Id.
**Proposed Changes to the Daubert Paradigm**

‘Proposed changes’ is somewhat of a misnomer. The power to interpret Daubert in accordance with the liberal rules is within the power of every federal judge. However, given the bias that Daubert allows to occur, pleading with judges to re-examine their own preconceptions is a daunting task. However, there are a few points that can be made on the subject.

**Meaningful Appellate Review**

Meaningful appellate review needs to be introduced. Recall that under General Electric Company v. Joinder, the court held that ‘abuse of discretion’ is the proper standard of review of a district court's evidentiary rulings,” and this also applies to Daubert rulings.\(^{176}\) Given that this is an extremely difficult standard to overcome, and that a wave of inconsistent Daubert rulings has hampered the notion of collateral estoppel, it would seem that the appeals courts ought to have greater power in overturning a trial judge’s decision. A de novo standard of review seems to be in order. If for no other reason, this should occur to establish uniformity of law within the circuit. This would prevent another Parlodel debacle.

But, General Electric need not be overturned for meaningful appellate review to be introduced. Some Circuits recognize the problems created by Daubert and go beyond the abuse of discretion standard. For example, the Third Circuit uses “a ‘hard look’ [approach] to insure that the district court’s exercise of discretion was sound and that it correctly applied the several Daubert factors.”\(^{177}\)

\(^{176}\) *Id.*

\(^{177}\) In re Paoli Railroad Yard PCB Litigation, 33 F.3d 717, 733 (3d Cir. 2004).
A More Liberal Standard in Novel Cases

One of the reasons for Daubert was to allow for a more liberal standard in novel cases.\textsuperscript{178} The court seemed to agree that it was unfair for a polluter or maker of a dangerous chemical to profit from a lack of science.\textsuperscript{179}

Trial judges, to give them credit, are struggling with what has been a proliferation of expert proof since the Daubert decision was handed down.

A Critique of “Non-traditional” Means

Some have suggested that courts turn to novel means in deciding which expert testimony to admit.\textsuperscript{180} These non-traditional means “include utilization of the Federal Judicial Center's (F.J.C.) Reference Manual on Scientific Evidence, appointment of a special master, use of technical advisors, and implementation of special procedures including non-adversary presentation of expert testimony.”\textsuperscript{181} Basically, some theorists believe there should be recourse to non-judge or juror third parties. But these “solutions,” like Daubert abuse, are only a means to prevent jurors from making decisions on matters.

The use of special masters and technical advisors could prove disastrous for the legal system. Who appoints the special master? If it is the judge, will not the judge appoint a person in-line with his or her preconceptions? Will not the parties involved in the litigation then fight about which special master is appointed? This solution does not seem to resolve anything.

Furthermore, scientists disagree. And many scientists are paid to say things that are not even accepted by the scientific community. This point is discussed above as part of the corporate influence in science.

\textsuperscript{178} Daubert at 588.
\textsuperscript{179} Daubert at 589.
\textsuperscript{181} Id.
Faith in the Jury System

As Judge Young notes in a letter to his colleagues, “[t]he American jury system is withering away.”

District court judges should recognize this and shore up its defense, because “as an instrument of justice, the civil jury is, quite simply, the best we have.”

Whether it is the notion of the judge as gatekeeper, or appointment of a special master, or using a technical advisor – all of these ‘solutions’ are tentacles of the same creature: distrust of the jury system. In response to corporate concerns that modifying the standards of admissibility might “result in a ‘free-for-all’ in which befuddled juries were confounded by absurd and irrational pseudoscientific assertions” the majority explained:

In this regard respondent [Merrell Dow] seems to us to be overly pessimistic about the capabilities of the jury and of the adversary system generally. Vigorous cross-examination, presentation of contrary evidence, and careful instruction on the burden of proof are the traditional and appropriate means of attacking shaky but admissible evidence . . . the court remains free to direct a judgment . . . and likewise to grant summary judgment.

No one is perfect. The current attack on “activist” federal judges is indicative of our ambivalence about putting decision-making power in any one place. This sentiment is also echoed by those who fear giving juries the power to listen to two competing sides, and come to a competent conclusion. Yet the constitution did just that, and those applying Daubert must keep that in mind.

What to do in the Meantime: Winning the Expert Battle

An attorney is well-advised to view the Daubert hearing as an essential part of the case.

Statistics show an overall affirmation rate (post-2000) of trial court Daubert decisions by
federal appellate courts. 186 A review of a significant number of post-Kumho cases reversing trial court decisions indicates that reversals will often be predicated on either a complete abdication of the trial court’s gatekeeping function (including classifying an expert witness as a lay witness) or a serious analytical error by the trial court. For much litigation (especially novel litigation), a Daubert loss can sound the death-knell.

The notion of a litigation explosion 187 has many federal judges intent on misusing Daubert. However, there are some techniques a plaintiff’s lawyer can take to win at the Daubert hearing. The important thing to remember about a Daubert hearing is that it is lawyer-driven rather than judge-driven. These are complex motions and generally the court is making a choice between two radically different presentations. The trial court generally cannot simply point to a lack of proof as it can on summary judgment. Rather the judge chooses one side’s argument over the others. 188

**Case and Forum Selection**

The prudent practitioner must incorporate the Daubert hearing into his or her case selection analysis. The Daubert hearing can be one of the most expensive phases of a trial. 189 Counsel should also imagine the case being assigned to the worst (e.g., laziest) judge at district court, not the best. If plaintiffs’ counsel is uncertain of prevailing at that hearing, it may not make sense to bring the case in federal court.

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187 See, generally, Arthur Miller, *The Pretrial Rush to Judgment: Are the “Litigation Explosion, Liability Crisis, and Efficiency Clichés Eroding Our Day in Court and Jury Trial Commitments?*, 78 N.Y.U.L.REV. 982 (2003) (arguing that “an unfettered commitment to ‘efficiency’ in the pretrial disposition context . . .[and] resort to the ‘litigation explosion’ and ‘liability crisis’ bromides’ have been eroding “systemic values” of rights to a day in court and to jury trial”).
188 Similar comments have been made about patent cases, since many judges simply are unable or unwilling to take the time to get steeped in the technology of the patent, and so pick one side’s brief over the other.
189 Today many of the resources that defendants used to spend on buying expert “dream teams” for trials go into expensive Daubert challenges. These challenges in some cases do more harm than good in that they educate plaintiff and force him to improve his presentation.
The lesson of Daubert is that expert proof needs to be part of the case selection process. Almost no complex case should be pursued without both a competent expert and an independent assessment of the admissibility of that expert’s testimony. Thus it is essential that a plaintiff expert prepare to have his weather and pass the Daubert hearing.

**Discovery Strategy**

Expert opinions rarely exist in the abstract – they must be applied to facts in a particular case. One of the Catch-22s in a Daubert hearing is that it might occur before the discovery hearing, when the expert has yet to fully have this opportunity.\(^{190}\) Unfortunately, many federal judges fail to appreciate, in the discovery context, the need for facts as a foundation for later expert proof.

For instance, in product liability cases some courts limit discovery to the batch from which the product came from. In Kumho Tire, the plaintiff’s expert opinion which was stricken was about a design flaw.\(^{191}\) But the only way to test the plaintiff’s theory would require discovery regarding adjustment figures.

So, what is a plaintiff’s attorney to do? It is crucial to avoid Daubert hearings at the pre-discovery stages of trial. The defense is likely to move to have a Daubert hearing at the pre-discovery stage, and plaintiff’s counsel must anticipate and be prepared to offer a convincing argument to the judge as to why this cannot be the case. It is important that the plaintiff’s attorney make clear connections between certain discovery goals (information to be obtained) and the putative expert proof. Without first proceeding with the discovery, the expert will not have a theory that is able to be reviewed by the court at the Daubert stage.

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\(^{190}\) Prior to Daubert, such experts could have been, but were rarely, stricken for failing to demonstrate how their testimony would assist jurors decide the facts of the case. Rule 702, F.R.Evid.

\(^{191}\) 526 U.S. 137 (1999).
Preparing the Expert

Plaintiffs’ counsel, recognizing the importance of its expert witness, must take certain actions in the screening, selection, preparation and presentation of experts. Of course, an expert with a poor track record at Daubert hearings should be avoided. But even those who have survived Daubert challenges before must still be prepared.

The expert should obviously be familiar with the four Daubert criteria, and be able to defend his or her work on each point.\textsuperscript{192} And, to be on the safe side, the attorney ought to make sure that the expert is prepared to offer the following to the trial judge. The following are of course in addition to the four Daubert factors:

- Proof and reasoning that the expert used an appropriate scientific methodology, including analysis of other methodologies ("trust me, judge" won’t cut it).\textsuperscript{193}
- Exactly what chemicals were or may possibly have been involved, and how those led to plaintiff’s injuries.\textsuperscript{194}
- That the expert formed their opinion only after reading the relevant literature (and that he or she did read the relevant literature).\textsuperscript{195}
- That the expert’s opinion is not a hypothesis still requiring proof.\textsuperscript{196}
- That the expert’s opinion has supporting studies, research, or literature.\textsuperscript{197}
- That the expert “reason[ed] from known facts to reach a conclusion . . . [and did not reason] from an end result in order to hypothesize what needed to be known but what was not.”\textsuperscript{198}
- If the expert is asserting peer review (which he/she should be), that the work was publicized in a journal found in the Index Medicus of the National Library of Medicine (mere publication somewhere is not peer review).\textsuperscript{199}
- That the expert, if possible, actually investigated the thing at issue (as opposed to just looking at photographs or recreations – for example in a tire failure case).\textsuperscript{200}

\textsuperscript{192} The Daubert criteria: (1) whether the methods upon which the testimony is based are centered upon a testable hypothesis; (2) the known or potential rate of error associated with the method; (3) whether the method has been subject to peer review; and (4) whether the method is generally accepted in the relevant scientific community.


\textsuperscript{194} Claar v. Burlington Northern Railroad Co., 29 F.3d 499 (9th Cir. 1994).

\textsuperscript{195} Id.

\textsuperscript{196} Porter v. Whitehall Laboratories, Inc., 9 F.3d 607 (7th Cir. 1993). This point underscores the importance of avoiding Daubert at pre-discovery phases.

\textsuperscript{197} Reynard v. NEC Corp., 887 F.Supp. 1500 (M.D.Fla. 1995).

\textsuperscript{198} Sorensen v. Shaklee Corp., 31 F.3d 638 (8th Cir. 1994).


\textsuperscript{200} Clement v. Griffin, 637 So.2d 478, 479 (La. 1994).
**Educate the Court**

Educate the court. Remember that Daubert is a lawyer-driven rather than a court-driven process. Usually, the trial judge is going to know what each lawyer tells him, and very little beyond that. Generally the key is to proactively educate the court without sounding patronizing. Three ways to do this are through (1) a detailed complaint, (2) focused discovery, and (3) the early use of scientific requests for admission.

Many legal practitioners believe that a complaint should be as simple as possible, so as not to reveal too much information to the other side and annoy the court. This is true in most instances. However, in novel cases where the judge may be grappling with issues and science that he or she has yet to experience, it might be a good idea to write a detailed complaint so as to educate the court. The plaintiff might want to include the scientific theories and the facts supporting that science when presenting the causes of action against the defendant. True, this gives the defense more time to prepare for the Daubert hearing, but it also frames the science in the plaintiff’s terms from the outset of the case, forcing the defense to react rather than put forward their own theory.

Discovery and early scientific admission requests can also educate the court about the science underlying the plaintiff expert’s assertions. If the case is a chemical exposure case, include very detailed discovery requests regarding every aspect of possible exposure. While some of these requests may not even be possible for the defendant to fulfill, you have showed the judge the scientific underpinnings of your claim. This not only educates the judge about the science underlying your claim, but shows the judge that a pre-discovery Daubert hearing is not a feasible option, as your expert is seeking specific facts upon which to build his or her opinion.

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Educate Yourself

It is also important for an attorney facing a Daubert challenge to educate oneself. First, the attorney should be able to grasp the science on the issue, and actively try to educate him or herself beyond that. Second, it is important for the attorney to understand the underlying methodology of the science, so that he or she can better defend it validity. If judges are going to don scientist hats, then you as the attorney must as well.

So how does one go about this? Of course the attorney should meet with the expert (and not only to learn the science, but to test the expert). If your expert cannot explain the science to the attorney in a way that he or she feels comfortable with it, then how well will the expert do in front of a judge or jury?

Also, read! If you are suing a coal company, read the biography of a coal tycoon. Read about the history of coal production, the innovations that changed the industry, and what techniques are being used today.

The reason self-education is clear. First, the more you know about the science, the better you can articulate a legal defense for its validity. And second, perhaps more importantly, you want the judge to see that you know more about the science than your opposing counsel – so that the judge turns to you, and not your opponent, for clarification. This of course will be in the back of the judge’s mind when he or she rules on which side’s science to adopt.

It is important to understand the essential characteristics of valid science:

1. Science seeks the systematic organization of information about the world, and in so doing discovers new relationships among natural phenomena.

2. Science endeavors to explain why phenomena occur and why they are related.

3. Systematic organization of information and explanation of phenomena also characterize other forms of knowledge, such as mathematics and philosophy, but science is further identified by a third characteristic -- scientific
explanations must be formulated in a way that makes them subject to empirical testing. An explanation or proposition that cannot be tested and potentially proven false simply is not scientific. In fact, falsifiability in many ways is the “criterion of demarcation” that sets science apart from other kinds of knowledge.\textsuperscript{202}

One should also be aware of the four steps for testing hypotheses:

1. A hypothesis must be examined for internal consistency. A proposition that is illogical or self-contradictory on its face should be rejected.

2. A hypothesis must be examined to see if it really provides insight and understanding into why observed phenomena occur. Ad hoc hypotheses developed to fit a known set of facts typically have little explanatory power.

3. A new hypothesis must be reviewed for consistency with other hypotheses and theories already accepted as valid to see whether it represents any real improvement over well-established alternatives. Lack of consistency with accepted knowledge does not mandate rejection, but it does call for great caution.

4. The final, and most important step in testing a hypothesis is empirical corroboration. The need for testing hypotheses empirically is best illustrated by examples of what typically happens to ideas that get widely promoted even though they lack empirical support. Some scientists refer to this kind of work as “pathological science,” characterized by a fixation on effects that are difficult to detect, a readiness to disregard prevailing ideas and theories, and an unwillingness to conduct meaningful experimental testing. Cold fusion is a classic example.\textsuperscript{203}

\textbf{Use Daubert Against Them}

Fight fire with fire. Plaintiffs should themselves consider aggressively using Daubert challenges. Daubert has long been considered a gift to defendants at the expense of plaintiffs. But it is not inconceivable for a plaintiff to use Daubert to its advantage. If the defendant seeks a Daubert hearing on plaintiff’s witnesses, then the plaintiff should do the same to the defendant (in certain cases).

\textsuperscript{203} Bert Black, Winning the Expert Wars in the Age of Daubert, SB16 ALI-ABA 13, 25 (July 19, 1996).
First, this provides the opportunity to strike bad defense experts of which there are many. Many defense “scientists” are little more than paid industry spokesmen. Expose them and the money trail.

The second advantage of a plaintiff Daubert challenge is that it generally forces the trier of fact to be more evenhanded in his or her assessment of scientific evidence. This is especially important when going before a judge with a perceived industry bias.

**Conclusion**

Daubert has grown to be a monster in the realm of civil litigation. The decision was meant to ease restrictions regarding barriers to scientific evidence, but empirical studies have shown the exact opposite has happened. This was hailed by some as a means to clear dockets and stop a ‘litigation explosion,’ but the forum-fighting that has resulted has only made matters worse. With each attempt by the Court to revisit Daubert, the monster only grew more heads, becoming more unwieldy and confusing. Now, with collateral estoppel in jeopardy, a chilled plaintiffs’ bar and scientific community, and the very purposes of the civil justice system in jeopardy, clarification is essential.

However, only an imprudent attorney will wait for the Daubert hydra to be slain in a judicial decision of Herculean proportions. Until that time, there are active steps plaintiffs’ attorneys can take now to protect their clients’ access to the courts. The dialogue surrounding what constitutes good science has been controlled by industry for too long. It is time for the plaintiffs’ bar to put forth a passionate defense of objective, fact-driven science, and fight fire with fire.

For the civil justice system, the stakes could not be higher.