

PRIVACY STATEMENT: The Diving Safety Office is collecting information on behalf of the Diving Control Board in order to evaluate your qualifications as a University of Maryland scientific diver. Please provide the requested information in order to participate in diving conducted under the auspices of the University of Maryland. The Diving Safety Office and/or Diving Control Board may share information it receives from you with other University offices, the University System of Maryland, and outside entities as necessary or appropriate in the conduct of legitimate University business and consistent with law, including the Maryland Access to Public Records Act, which may exempt from disclosure any medical information you provide. You may inspect and/or correct the information you provide in accordance with the Maryland Access to Public Records Act and applicable University policy.

Name (Last, First	st)						U	ID
Mailing Addres	S							
Permanent Ac	ldress							
Telephone: I	Home			Work _			_ _	
Elliali Audiess	(62)							
Title (Prof., As	soc. Prof., A	Asst. Prof.	, Grad.	Asst., S	Studen	t)		
Your Office Lo	cation (Bu	ilding and	Room	#)				
Department					c	ollege		
Department Su	pervisor _					Pho	ne	
Birth Date (M/D)/Y)	_ Sex	Hei	ght	We	ight	Eyes	Hair
Please provide p	hotocopies	of docum	entatio	n where	appro	priate.		
Recreational D	iving Certif	fications:						
<u>Agency</u> <u>C</u>				<u>Date</u>		Location	-	Instructor/Number
Scientific Divin Organization (U	_		Private)	<u>Date</u>		Location	<u> </u>	Diving Officer
Specialty Certif								
Agency	Certif	fication Le	vel	<u>Date</u>		Location	=	Instructor/Number
Emergency Ca	re Certifica	itions:						
CDD	Agen					evel	_	Date of Last Training
CPR								
First Aid Oxygen Admin	•							
DAN Insurance	No	o Y	es	Exp. [Date			

			Months Total I Greatest Depth	Number of Dives
Cumulative Total N 0-30' 31-60'	umber of Dives 61-100'	per Depth 101-130'	131-150'	_ 151-190'
Experience (Mark an "X" for area experience)	as in which you ha	ave some exp	perience and "XX" for	areas with considerable
Ocean Kelp Deep Night Ice Wreck	_ Search & Reco _ Decompression _ Cold Water _ Saturation	very n	Low Visibility Shore Sur Currents Cave Surface Supplied	Boat Photography Navigation Dive Computer Mixed Gas Dry Suit
Diving Equipment I	_ist			
Item Regulator Alternate Air Sourc Pressure Gauge Depth Gauge Dive Computer BCD Cylinder Other	e		Date Purchased	
Emergency Contac	t Information (Pe	erson to notif	y in case of an emero	gency)
Name Telephone: Home _ Address Email		Work _	Relatio	onship Cell
I certify that, to the	best of my knov	vledge, the a	above information is	s correct.
Signature			Date	
Send completed form	Universit		Department of Resear	

0103 Seneca Building, College Park, Maryland 20742-3133

RELEASE AND WAIVER AND INFORMED CONSENT AGREEMENT

In consideration of being permitted to participate as a voluntary diver in the diving program, skin and/or scuba diving activities, and incidental activities related thereto ("Diving Activities") and described below, that are to be conducted under the auspices of or in cooperation with the University of Maryland (University), a public agency and instrumentality of the State of Maryland (State), through the University's Department of Research Safety, I, the undersigned participant, hereby represent that I

- (1) Am at least eighteen years of age; and
- (2) Hold at least a basic recreational scuba diving certification from a nationally recognized certification organization; and
- (3) Have obtained a copy of the UM Dive Safety Manual and am familiar with its content, including its safety requirements. The Dive Manual is available on-line at https://www.essr.umd.edu/document-diving-safety-manual or from the Dive Safety Officer (DSO); and
- (4) Am fully aware of and understand the obligations and requirements to maintain my diving skills, physical fitness and mental preparation for all dives; the dangers associated with Diving Activities, including but not limited to near drowning, air embolism, carbon dioxide excess, squeezes, oxygen poisoning, nitrogen narcosis, exhaustion and panic, respiratory fatigue, motion sickness, decompression sickness (D.C.S.), hypothermia, hypoxia/anoxia, barotrauma, hyperbaric treatment, hyperoxic, hypercapnia D.C.S, pneumothorax, mediastinal emphysema, air embolism, subcutaneous emphysema, ruptured eardrum or round window rupture, paralysis, arterial gas embolism (A.G.E.) (see http://www.scuba-doc.com/glssry.html) and being fully informed of these obligations, requirements and dangers, I voluntarily assume all risk of loss, damage, illness, injury to my person or property and death that may result from my participation in Diving Activities; and
- (5) Have and will continue to have for the duration of Diving Activities health insurance that is adequate to cover any injuries or illnesses that I may sustain in connection with Diving Activities and that will apply to Diving Activities conducted outside the United States.

I further agree to:

- (6) Conduct all Diving Activities as no-decompression dives; and
- (7) Indemnify and hold harmless the State, the University and their officers, agents and employees from and against any and all claims or causes or action by whomever or wherever made or presented for personal injuries, property damage or wrongful death related to or arising out of Diving Activities; and
- (8) Fully and finally waive and release the State, the University and their officers, agents and employees from and against any and all actions or causes of action, claims, or demands that are associated with or related in any way to the Diving Activities whether or not such actions, claims, or demands arise out of the negligence, omission, default or other action of the University, its officers, agents, employees and/or any person or entity associated with Diving Activities.

This Agreement represents my complete understanding with the University regarding the subject of this agreement. I understand that this Agreement may not be modified without my written agreement and that, in the event of a dispute regarding its terms, this Agreement will be governed by the laws of the State of Maryland. I certify that I have read this Agreement, have been afforded the right to consult an adviser or attorney prior to signing it, understand its terms and conditions and voluntarily execute this Agreement.

Participant name	Signature	Date
Address	E-Mail Address	Date of Birth
(If participant is under 18 years old you	must contact the Dive Safety Officer at jdykman@	Dumd.edu)

DIVING MEDICAL HISTORY FORM

(To be co	mpleted by applicant-diver before medical	exam and	reviewed	by exam	ining clinician.)
Name		_ Sex	Age	Wt	Ht
Sponsor _	(Dept./Project/Program/School, etc.)		_]	Date	
	(Dept./Project/Program/School, etc.)				

To the Applicant:

Scuba diving places considerable physical and mental demands on the diver. Certain medical and physical requirements must be met before beginning a diving or training program. Your accurate answers to the questions are more important, in many instances, in determining your fitness to dive than what the clinician may see, hear or feel as part of the diving medical certification procedure.

This form shall be kept confidential by the examining clinician. If you believe any question amounts to invasion of your privacy, you may elect to omit an answer, provided that you shall subsequently discuss that matter with your own clinician who must then indicate, in writing, that you have done so and that no health hazard exists.

Should your answers indicate a condition, which might make diving hazardous, you will be asked to review the matter with your clinician. In such instances, their written authorization will be required in order for further consideration to be given to your application. If your clinician concludes that diving would involve undue risk for you, remember that they are concerned only with your well-being and safety.

	Yes	No	Please indicate whether or not the following apply to you	Comments
1			Convulsions, seizures, or epilepsy	
2			Fainting spells or dizziness	
3			Been addicted to drugs	
4			Diabetes	
5			Motion sickness or sea/air sickness	
6			Claustrophobia	
7			Mental disorder or nervous breakdown	
8			Are you pregnant?	
9			Do you suffer from menstrual problems?	
10			Anxiety spells or hyperventilation	
11			Frequent sour stomachs, nervous stomachs or vomiting spells	
12			Had a major operation	
13			Presently being treated by a physician	
14			Taking any medication regularly (even non-prescription)	
15			Been rejected or restricted from sports	
16			Headaches (frequent and severe)	
17			Wear dental plates	

	Yes	No	Please indicate whether or not the following apply to you	Comments
18			Wear glasses or contact lenses	
19			Bleeding disorders	
20			Alcoholism	
21			Any problems related to diving	
22			Nervous tension or emotional problems	
23			Take tranquilizers	
24			Perforated ear drums	
25			Hay fever	
26			Frequent sinus trouble, frequent drainage from the nose, post-nasal drip, or stuffy nose	
27			Frequent earaches	
28			Drainage from the ears	
29			Difficulty with your ears in airplanes or on mountains	
30			Ear surgery	
31			Ringing in your ears	
32			Frequent dizzy spells	
33			Hearing problems	
34			Trouble equalizing pressure in your ears	
35			Asthma	
36			Wheezing attacks	
37			Cough (chronic or recurrent)	
38			Frequently raise sputum	
39			Pleurisy	
40			Collapsed lung (pneumothorax)	
41			Lung cysts	
42			Pneumonia	
43			Tuberculosis	

	Yes	No	Please indicate whether or not the following apply to you	Comments
44			Shortness of breath	
45			Lung problem or abnormality	
46			Spit blood	
47			Breathing difficulty after eating particular foods, after exposure to particular pollens or animals	
48			Are you subject to bronchitis	
49			Subcutaneous emphysema (air under the skin)	
50			Air embolism after diving	
51			Decompression sickness	
52			Rheumatic fever	
53			Scarlet fever	
54			Heart murmur	
55			Large heart	
56			High blood pressure	
57			Angina (heart pains or pressure in the chest)	
58			Heart attack	
59			Low blood pressure	
60			Recurrent or persistent swelling of the legs	
61			Pounding, rapid heartbeat or palpitations	
62			Easily fatigued or short of breath	
63			Abnormal EKG	
64			Joint problems, dislocations or arthritis	
65			Back trouble or back injuries	
66			Ruptured or slipped disk	
67			Limiting physical handicaps	
68			Muscle cramps	
69			Varicose veins	

	168	110	r lease indicate whether or not the following apply to you	Comments
70			Amputations	
71			Head injury causing unconsciousness	
72			Paralysis	
73			Have you ever had an adverse reaction to medication?	
74			Do you smoke?	
75			Have you ever had any other medical problems not listed? If so, please list or describe below;	
76			Is there a family history of high cholesterol?	
77			Is there a family history of heart disease or stroke?	
78			Is there a family history of diabetes?	
79			Is there a family history of asthma?	
80			Date of last tetanus shot? Vaccination dates?	
Please	explai	n any "	yes" answers to the above questions.	
I certif	y that	the abo	ve answers and information represent an accurate and complete descrip	otion of my medical history.
Signat	ure		Date	

DIVING MEDICAL EXAM OVERVIEW FOR THE EXAMINING CLINICIAN

TO THE EXAMINING CLINICIAN:

This person requires a medical examination to assess their fitness for certification as a Scientific Diver for the University of Maryland, College Park. Their answers on the Diving Medical History Form (attached) may indicate potential health or safety risks as noted. Your evaluation is requested on the attached scuba Diving Fitness Medical Evaluation Report. If you have questions about diving medicine, you may wish to consult one of the references on the attached list or contact one of the physicians with expertise in diving medicine whose names and phone numbers appear on an attached list, the Undersea Hyperbaric and Medical Society, or the Divers Alert Network. Please contact UM's Diving Safety Officer if you have any questions or concerns about the University of Maryland's standards for scientific diving. Thank you for your assistance.

Diving Safety Officer: Josh Dykman; jdykman@umd.edu; phone: 301-405-3960 or 443-716-5698

Scuba and other modes of compressed-gas diving can be strenuous and hazardous. A special risk is present if the middle ear, sinuses, or lung segments do not readily equalize air pressure changes. The most common cause of distress is Eustachian insufficiency. Recent deaths in the scientific diving community have been attributed to cardiovascular disease. Please consult the following list of conditions that usually restrict candidates from diving.

(Adapted from Bove, 1998: bracketed numbers are pages in Bove)

CONDITIONS WHICH MAY DISQUALIFY CANDIDATES FROM DIVING

- 1. Abnormalities of the tympanic membrane, such as perforation, presence of a monomeric membrane, or inability to autoinflate the middle ears. [5, 7, 8, 9]
- 2. Vertigo, including Meniere's Disease. [13]
- 3. Stapedectomy or middle ear reconstructive surgery. [11]
- 4. Recent ocular surgery. [15, 18, 19]
- 5. Psychiatric disorders including claustrophobia, suicidal ideation, psychosis, anxiety states, untreated depression. [20 23]
- 6. Substance abuse, including alcohol. [24 25]
- 7. Episodic loss of consciousness. [1, 26, 27]
- 8. History of seizure. [27, 28]
- 9. History of stroke or a fixed neurological deficit. [29, 30]
- 10. Recurring neurologic disorders, including transient ischemic attacks. [29, 30]
- 11. History of intracranial aneurysm, other vascular malformation or intracranial hemorrhage. [31]
- 12. History of neurological decompression illness with residual deficit. [29, 30]
- 13. Head injury with sequelae. [26, 27]
- 14. Hematologic disorders including coagulopathies. [41, 42]
- 15. Evidence of coronary artery disease or high risk for coronary artery disease. [33 35]
- 16. Atrial septal defects. [39]
- 17. Significant valvular heart disease isolated mitral valve prolapse is not disqualifying. [38]
- 18. Significant cardiac rhythm or conduction abnormalities. [36 37]
- 19. Implanted cardiac pacemakers and cardiac defibrillators (ICD). [39, 40]
- 20. Inadequate exercise tolerance. [34]
- 21. Severe hypertension. [35]
- 22. History of spontaneous or traumatic pneumothorax. [45]
- 23. Asthma. [42 44]
- 24. Chronic pulmonary disease, including radiographic evidence of pulmonary blebs, bullae, or cysts. [45,46]
- 25. Diabetes mellitus. [46 47]

Revised March 2018

SELECTED REFERENCES IN DIVING MEDICINE

Available from Best Publishing Company, P.O. Box 30100, Flagstaff, AZ 86003-0100, the Divers Alert Network (DAN) or the Undersea and Hyperbaric Medical Society (UHMS), Durham, NC

- Elliott, D.H. ed. 1996. *Are Asthmatics Fit to Dive?* Kensington, MD: Undersea and Hyperbaric Medical Society.
- Bove, A.A. 2011. The cardiovascular system and diving risk. *Undersea and Hyperbaric Medicine* 38(4): 261-269.
- Thompson, P.D. 2011. The cardiovascular risks of diving. *Undersea and Hyperbaric Medicine* 38(4): 271-277.
- Douglas, P.S. 2011. Cardiovascular screening in asymptomatic adults: Lessons for the diving world. *Undersea and Hyperbaric Medicine* 38(4): 279-287.
- Mitchell, S.J., and A.A. Bove. 2011. Medical screening of recreational divers for cardiovascular disease: Consensus discussion at the Divers Alert Network Fatality Workshop. *Undersea and Hyperbaric Medicine* 38(4): 289-296.
- Grundy, S.M., Pasternak, R., Greenland, P., Smith, S., and Fuster, V. 1999. Assessment of Cardiovascular Risk by Use of Multiple-Risk-Factor Assessment Equations. AHA/ACC Scientific Statement. *Journal of the American College of Cardiology*, 34: 1348-1359. http://content.onlinejacc.org/cgi/content/short/34/4/1348
- Bove, A.A. and Davis, J. 2003. DIVING MEDICINE, Fourth Edition. Philadelphia: W.B. Saunders Company.
- Edmonds, C., Lowry, C., Pennefather, J. and Walker, R. 2002. DIVING AND SUBAQUATIC MEDICINE, Fourth Edition. London: Hodder Arnold Publishers.
- Bove, A.A. ed. 1998. MEDICAL EXAMINATION OF SPORT SCUBA DIVERS, San Antonio, TX: Medical Seminars, Inc.
- NOAA DIVING MANUAL, NOAA. Superintendent of Documents. Washington, DC: U.S. Government Printing Office.
- U.S. NAVY DIVING MANUAL. Superintendent of Documents, Washington, DC: U.S. Government Printing Office, Washington, D.C.
- Diving: essr.umd.edu

MEDICAL EVALUATION OF FITNESS FOR SCUBA DIVING REPORT

Name of Applicant (Print or Type)	Date of Medical Evaluation (Month/Day/Year))
To The Examining Clinician: Scientific divers require perifitness to engage in scuba diving. Their answers on the Diving safety risks as noted. Scuba diving is an activity that puts u opinion on the applicant's medical fitness is requested on this exertion. The diver must be free of cardiovascular and respirat lungs, middle ears and sinuses to equalize pressure. Any disqualify the applicant. Please proceed in accordance with questions about diving medicine, please consult with the UNetwork.	ng Medical History Form may indicate potential unusual stress on the individual in several was Medical Evaluation Form. Scuba diving requitory disease. An absolute requirement is the abic condition that risks the loss of consciousne the AAUS Medical Standards (Sec. 6.00). If	I health or ys. Your ires heavy dity of the ess should you have
TESTS: THE FOLLOWING TESTS ARE <u>REQUIRED</u> :		
UNDER AGE 40: Medical historyComplete physical exam, with emphasis on negrous of the description	over age 40) Multiple-Risk-Factor Assessment ¹ g, smoking)	
CLINICIAN'S STATEMENT:	•	
01 Diver <u>IS</u> medically qualified to dive for:	2 years (over age 60) 3 years (age 40-59) 5 years (under age 40)	
02 Diver <u>IS NOT</u> medically qualified to dive:	PermanentlyTemporarily.	
I have evaluated the abovementioned individual according to standards and required tests for scientific diving (Sec. 6.00 conditions that may be disqualifying for participation in scub-condition(s) that would not disqualify him/her from diving b The patient understands the nature of the hazards and the risks	and Appendix 1) and, in my opinion, find no ba diving. I have discussed with the patient and but which may seriously compromise subseque	o medical y medical
МГ	D or DO	_
Signature	Date	
Name (Print or Type)	<u>-</u>	
Address		

E-Mail Address

Telephone Number

M	EDICAL EVALUATION OF FITNESS FOR SCUBA DIVING REPORT APPLICANT'S RELEASE OF MEDICAL INFORMATION FORM
Name of App	APPLICANT'S RELEASE OF MEDICAL INFORMATION FORM
Name of Appauthorize the ving to the	APPLICANT'S RELEASE OF MEDICAL INFORMATION FORM plicant (Print or Type)
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Name of Apple authorize the ving to the ollege Park.	APPLICANT'S RELEASE OF MEDICAL INFORMATION FORM plicant (Print or Type) ne release of this information and all medical information subsequently acquired in association with my Diving Safety Officer and Diving Control Board or their designee at the University of Maryland,

Clinician's Remarks: